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Power semiconductors for industrial and consumer applications

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Reference book
IGBT Modules

Technologies, Driver and Application

IGBT Modules – Technologies, Driver and Applications
Andreas Volke (Author), Michael Hornkamp (Author),
Jost Wendt (Translator)
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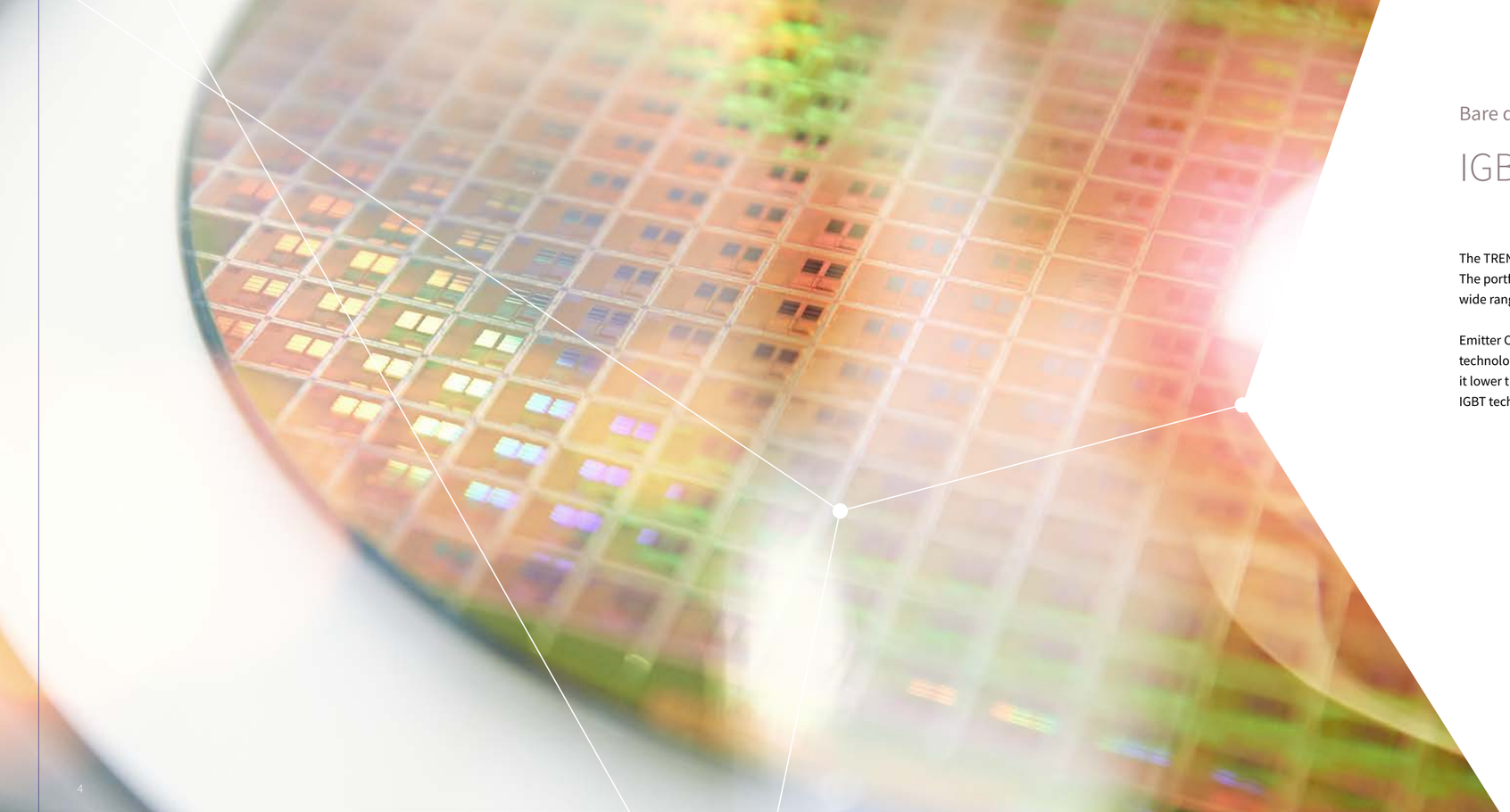


Bare dies

IGBTs and diodes

The TRENCHSTOP™ IGBT combines the unique Trench- and Fieldstop-Technology and is a benchmark in the Industry. The portfolio includes the voltage range from 600 V up to 1700 V with several different versions, and is optimized for a wide range of applications like Drives, Renewable Energy, Welding and Power Supplies.

Emitter Controlled-Diode is Infineon unique Fast Recovery Diode technology. The Ultrathin wafer and field-stop technology makes the Emitter Controlled-Diode from Infineon ideally suited for consumer & industry applications as it lower the turn-on losses of the IGBT with soft recovery. The Emitter Controlled-Diode is optimized for the Infineon IGBT technology.

IGBT bare die (400 V - 1200 V)

Product	Product Status	V_{CE} max [V]	I_C max [A]	$V_{CE(sat)}$ max [V]	$V_{GE(th)}$ min [V]	$V_{GE(th)}$ max [V]	t_r [ns]	t_f [ns]	Operating Temperature min [°C]	Operating Temperature max [°C]
IGBT HighSpeed 3										
IGC99T120T8RQ	coming soon	1200.0	100.0	2.42	5.1	6.4	-	-	-40.0	175.0
IGC10T65QE	active and preferred	650.0	20.0	2.32	4.2	5.6	-	-	-40.0	175.0
IGC15T65QE	active and preferred	650.0	30.0	2.32	4.2	5.6	-	-	-40.0	175.0
IGC19T65QE	active and preferred	650.0	40.0	2.32	4.2	5.6	-	-	-40.0	175.0
IGC28T65QE	active and preferred	650.0	50.0	2.22	4.2	5.6	-	-	-40.0	175.0
IGC31T65QE	active and preferred	650.0	60.0	2.22	4.2	5.6	-	-	-40.0	175.0
IGC39T65QE	active and preferred	650.0	75.0	2.22	4.2	5.6	-	-	-40.0	175.0
IGC54T65R3QE	active and preferred	650.0	100.0	2.22	4.2	5.6	-	-	-40.0	175.0
IGC18T120T8Q	active and preferred	1200.0	15.0	2.42	5.3	6.3	-	-	-40.0	175.0
IGC27T120T8Q	active and preferred	1200.0	25.0	2.42	5.3	6.3	-	-	-40.0	175.0
IGC41T120T8Q	active and preferred	1200.0	40.0	2.42	5.3	6.3	-	-	-40.0	175.0
IGC50T120T8RQ	active and preferred	1200.0	50.0	2.42	5.3	6.3	-	-	-40.0	175.0
IGC70T120T8RQ	active and preferred	1200.0	75.0	2.42	5.3	6.3	-	-	-40.0	175.0

Product	Product Status	V_{CE} max [V]	I_C max [A]	$V_{CE(sat)}$ max [V]	$V_{GE(th)}$ min [V]	$V_{GE(th)}$ max [V]	t_r [ns]	t_f [ns]	Operating Temperature min [°C]	Operating Temperature max [°C]
IGBT3										
SIGC03T60E	active and preferred	600.0	4.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC04T60E	active and preferred	600.0	6.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC04T60GE	active and preferred	600.0	6.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC06T60E	active and preferred	600.0	10.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC06T60GE	active and preferred	600.0	10.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC08T60E	active and preferred	600.0	15.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC10T60E	active and preferred	600.0	20.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC15T60E	active and preferred	600.0	30.0	1.9	5.0	6.5	-	-	-40.0	175.0
SIGC28T60E	active and preferred	600.0	50.0	1.85	5.0	6.5	-	-	-40.0	175.0
SIGC39T60E	active and preferred	600.0	75.0	1.85	5.0	6.5	-	-	-40.0	175.0
SIGC40T60R3E	active and preferred	600.0	75.0	1.85	5.0	6.5	-	-	-40.0	175.0
SIGC54T60R3E	active and preferred	600.0	100.0	1.85	5.0	6.5	-	-	-40.0	175.0
SIGC76T60R3E	active and preferred	600.0	150.0	1.85	5.0	6.5	-	-	-40.0	175.0
SIGC100T60R3E	active and preferred	600.0	200.0	1.85	5.0	6.5	-	-	-40.0	175.0
SIGC04T65E	active and preferred	650.0	6.0	1.87	5.1	6.5	-	-	-40.0	175.0
SIGC06T65E	active and preferred	650.0	10.0	1.87	5.1	6.5	-	-	-40.0	175.0
SIGC06T65GE	active and preferred	650.0	10.0	1.87	5.1	6.4	-	-	-40.0	175.0
SIGC08T65E	active and preferred	650.0	15.0	1.87	5.1	6.4	-	-	-40.0	175.0
SIGC10T65E	active and preferred	650.0	20.0	1.87	5.1	6.4	-	-	-40.0	175.0
SIGC15T65E	active and preferred	650.0	30.0	1.87	5.1	6.4	-	-	-40.0	175.0
SIGC28T65E	active and preferred	650.0	50.0	1.77	5.1	6.4	-	-	-40.0	175.0
SIGC39T65E	active and preferred	650.0	75.0	1.77	5.1	6.4	-	-	-40.0	175.0
SIGC40T65R3E	active and preferred	650.0	75.0	1.77	5.1	6.4	-	-	-40.0	175.0
SIGC54T65R3E	active and preferred	650.0	100.0	1.77	5.1	6.4	-	-	-40.0	175.0
SIGC76T65R3E	active and preferred	650.0	150.0	1.2	5.1	6.4	-	-	-40.0	175.0
SIGC78T65R3E	active and preferred	650.0	150.0	1.54	5.1	6.4	-	-	-40.0	175.0
SIGC100T65R3E	active and preferred	650.0	200.0	1.2	5.1	6.4	-	-	-40.0	175.0
SIGC12T120E	active and preferred	1200.0	8.0	2.1	5.0	6.5	-	-	-40.0	150.0

IGBT bare die (400 V - 1200 V)

Product	Product Status	V_{CE} max [V]	I_C max [A]	$V_{CE(sat)}$ max [V]	$V_{GE(th)}$ min [V]	$V_{GE(th)}$ max [V]	t_r [ns]	t_f [ns]	Operating Temperature min [°C]	Operating Temperature max [°C]
IGBT3										
SIGC12T120LE	active and preferred	1200.0	8.0	2.1	5.0	6.5	0.026 ns	0.14 ns	-40.0	150.0
SIGC20T120E	active and preferred	1200.0	15.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC20T120LE	active and preferred	1200.0	15.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC32T120R3E	active and preferred	1200.0	25.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC32T120R3LE	active and preferred	1200.0	25.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC41T120R3E	active and preferred	1200.0	35.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC41T120R3LE	active and preferred	1200.0	40.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC57T120R3E	active and preferred	1200.0	50.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC57T120R3LE	active and preferred	1200.0	50.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC84T120R3E	active and preferred	1200.0	75.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC84T120R3LE	active and preferred	1200.0	75.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC109T120R3E	active and preferred	1200.0	100.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC109T120R3LE	active and preferred	1200.0	100.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC158T120R3E	active and preferred	1200.0	150.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC158T120R3LE	active and preferred	1200.0	150.0	2.1	5.0	6.5	-	-	-40.0	150.0
SIGC42T170R3GE	active and preferred	1700.0	29.0	2.4	5.2	6.4	50000.0 ns	300000.0 ns	-55.0	150.0
SIGC68T170R3E	active and preferred	1700.0	50.0	2.4	5.2	6.4	-	-	-55.0	150.0
SIGC101T170R3E	active and preferred	1700.0	75.0	2.4	5.2	6.4	-	-	-55.0	150.0
SIGC128T170R3E	active and preferred	1700.0	100.0	2.4	5.2	6.4	-	-	-55.0	150.0
SIGC158T170R3E	active and preferred	1700.0	125.0	2.4	5.2	6.4	-	-	-55.0	150.0
SIGC186T170R3E	active and preferred	1700.0	150.0	2.4	5.2	6.4	-	-	-55.0	150.0

Product	Product Status	V_{CE} max [V]	I_C max [A]	$V_{CE(sat)}$ max [V]	$V_{GE(th)}$ min [V]	$V_{GE(th)}$ max [V]	t_r [ns]	t_f [ns]	Operating Temperature min [°C]	Operating Temperature max [°C]
IGBT3 Fast										
SIGC03T60SE	active and preferred	600.0	4.0	2.05	4.1	5.7	-	-	-40.0	150.0
SIGC04T60GSE	active and preferred	600.0	6.0	2.05	4.1	5.7	-	-	-40.0	150.0
SIGC08T60SE	active and preferred	600.0	15.0	2.05	4.1	5.7	-	-	-40.0	150.0
SIGC10T60SE	active and preferred	600.0	20.0	2.05	4.1	5.7	-	-	-40.0	150.0
SIGC15T60SE	active and preferred	600.0	30.0	2.05	4.1	5.7	-	-	-40.0	150.0
SIGC19T60SE	active and preferred	600.0	40.0	1.97	4.2	5.6	-	-	-40.0	150.0
IGBT3 High Power										
IGC114T170S8RH	active and preferred	1700.0	100.0	2.15	5.2	6.4	-	-	-40.0	150.0
IGC136T170S8RH2	active and preferred	1700.0	117.5	1.3	5.3	6.3	-	-	-40.0	150.0
IGC168T170S8RH	active and preferred	1700.0	150.0	2.15	5.2	6.4	-	-	-40.0	150.0
IGBT3 Medium Power										
IGC28T65T8M	active and preferred	650.0	50.0	1.82	5.1	6.4	-	-	-40.0	175.0
IGC39T65T8M	active and preferred	650.0	75.0	1.82	5.1	6.4	-	-	-40.0	175.0
IGC54T65T8RM	active and preferred	650.0	100.0	1.82	5.1	6.4	-	-	-40.0	175.0
IGC76T65T8RM	active and preferred	650.0	150.0	1.23	5.1	6.4	-	-	-40.0	175.0
IGC100T65T8RM	active and preferred	650.0	200.0	1.23	5.1	6.4	-	-	-40.0	175.0
IGC89T170S8RM	active and preferred	1700.0	75.0	2.2	5.2	6.4	-	-	-40.0	150.0
IGC114T170S8RM	active and preferred	1700.0	100.0	2.2	5.2	6.4	-	-	-40.0	150.0
IGC168T170S8RM	active and preferred	1700.0	150.0	2.2	5.2	6.4	-	-	-40.0	150.0
IGBT3 RC Drives										
IGC03R60DE	active and preferred	600.0	2.5	2.1	4.3	5.7	-	-	-40.0	175.0
IGC04R60DE	active and preferred	600.0	4.0	2.1	4.3	5.7	-	-	-40.0	175.0
IGC05R60DE	active and preferred	600.0	6.0	2.1	4.3	5.7	-	-	-40.0	175.0
IGC06R60DE	active and preferred	600.0	8.0	2.1	4.3	5.7	-	-	-40.0	175.0
IGC07R60DE	active and preferred	600.0	10.0	2.1	4.3	5.7	-	-	-40.0	175.0
IGC10R60DE	active and preferred	600.0	15.0	5.7	4.3	5.7	-	-	-40.0	175.0

IGBT bare die (400 V - 1200 V)

Product	Product Status	V_{CE} max [V]	I_C max [A]	$V_{CE(sat)}$ max [V]	$V_{GE(th)}$ min [V]	$V_{GE(th)}$ max [V]	t_r [ns]	t_f [ns]	Operating Temperature min [°C]	Operating Temperature max [°C]
IGBT4 High Power										
IGC99T120T8RH	active and preferred	1200.0	100.0	1.92	5.1	6.4	-	-	-40.0	175.0
IGC142T120T8RH	active and preferred	1200.0	150.0	1.26	5.1	6.4	-	-	-40.0	175.0
IGBT4 Low Power										
IGC07T120T8L	active and preferred	1200.0	4.0	2.02	5.3	6.3	-	-	-40.0	175.0
IGC11T120T8L	active and preferred	1200.0	8.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC13T120T8L	active and preferred	1200.0	10.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC18T120T8L	active and preferred	1200.0	15.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC27T120T8L	active and preferred	1200.0	25.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC36T120T8L	active and preferred	1200.0	35.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC50T120T8RL	active and preferred	1200.0	50.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC70T120T8RL	active and preferred	1200.0	75.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC99T120T8RL	active and preferred	1200.0	100.0	1.97	5.1	6.4	-	-	-40.0	175.0
IGC142T120T8RL	active and preferred	1200.0	150.0	1.74	5.3	6.3	-	-	-40.0	175.0
IGC189T120T8RL	active and preferred	1200.0	200.0	2.05	5.3	6.3	-	-	-40.0	175.0
IGBT4 Medium Power										
IGC70T120T8RM	active and preferred	1200.0	75.0	2.07	5.3	6.3	-	-	-40.0	175.0
IGC99T120T8RM	active and preferred	1200.0	100.0	1.97	5.1	6.4	-	-	-40.0	175.0
IGC142T120T8RM	active and preferred	1200.0	150.0	1.74	5.3	6.3	-	-	-40.0	175.0
IGC193T120T8RM	active and preferred	1200.0	200.0	1.3	5.3	6.3	-	-	-40.0	175.0

Chip diode

Product	Product Status	V_{RRM} max [V]	I_F max [A]	$I_{(FSM)}$ max [A]	V_F [V]	I_R max [uA]	I_{rrm} [A]
Emitter Controlled Diode							
SIDC42D170E6	active and preferred	1700.0	50.0	100.0	2.15	375.0	36.0
SIDC56D170E6	active and preferred	1700.0	75.0	150.0	2.15	375.0	55.0
SIDC73D170E6	active and preferred	1700.0	100.0	200.0	2.15	375.0	110.0
Emitter Controlled Diode 3							
SIDC02D60C8	active and preferred	600.0	6.0	12.0	1.6	27.0	-
SIDC03D60C8	active and preferred	600.0	10.0	20.0	1.6	27.0	-
SIDC05D60C8	active and preferred	600.0	15.0	30.0	1.6	27.0	-
SIDC06D60C8	active and preferred	600.0	20.0	40.0	1.6	27.0	-
SIDC08D60C8	active and preferred	600.0	30.0	60.0	1.6	27.0	-
SIDC14D60C8	active and preferred	600.0	50.0	100.0	1.6	27.0	-
SIDC20D60C8	active and preferred	600.0	75.0	150.0	1.6	27.0	-
SIDC26D60C8	active and preferred	600.0	100.0	200.0	1.6	27.0	-
SIDC38D60C8	active and preferred	600.0	150.0	300.0	1.6	27.0	-
SIDC50D60C8	active and preferred	600.0	200.0	400.0	1.6	27.0	-
SIDC02D65C8	active and preferred	650.0	6.0	12.0	1.55	0.1	-
SIDC03D65C8	active and preferred	650.0	10.0	20.0	1.55	0.14	-
SIDC05D65C8	active and preferred	650.0	15.0	30.0	1.55	0.18	-
SIDC06D65C8	active and preferred	650.0	20.0	40.0	1.55	0.24	-
SIDC08D65C8	active and preferred	650.0	30.0	60.0	1.55	0.36	-
SIDC14D65C8	active and preferred	650.0	50.0	100.0	1.55	0.6	-
SIDC20D65C8	active and preferred	650.0	75.0	150.0	1.55	0.9	-
SIDC26D65C8	active and preferred	650.0	100.0	200.0	1.17	1.2	-
SIDC38D65C8	active and preferred	650.0	150.0	300.0	1.17	1.8	-
SIDC50D65C8	active and preferred	650.0	200.0	-	1.17	2.4	-
SIDC32D170H	active and preferred	1700.0	50.0	100.0	1.8	250.0	62.0
SIDC46D170H	active and preferred	1700.0	75.0	150.0	1.8	250.0	93.0
SIDC59D170H	active and preferred	1700.0	100.0	200.0	1.8	250.0	123.0
SIDC78D170H	active and preferred	1700.0	150.0	300.0	1.8	250.0	175.0

Chip diode

Product	Product Status	V_{DS} max [V]	I_F max [A]	$I_{(FSM)}$ max [A]	V_F [V]	I_R max [uA]	I_{rrm} [A]
Emitter Controlled Diode 3							
SIDC85D170H	active and preferred	1700.0	150.0	300.0	1.8	250.0	131.0
SIDC110D170H	active and preferred	1700.0	200.0	400.0	1.8	250.0	171.0
SIDC112D170H	active and preferred	1700.0	205.0	410.0	1.9	20.0	-
SIDC161D170H	active and preferred	1700.0	300.0	600.0	1.8	250.0	233.0
Emitter Controlled Diode 4 High Power							
IDC40D120T6H	active and preferred	1200.0	75.0	150.0	1.9	14.0	-
IDC40D120T8H	active and preferred	1200.0	-	-	1.9	14.0	-
IDC51D120T6H	active and preferred	1200.0	100.0	200.0	1.9	18.0	-
IDC51D120T8H	active and preferred	1200.0	-	-	1.9	18.0	-
IDC73D120T6H	active and preferred	1200.0	150.0	300.0	1.9	26.0	-
IDC73D120T8H	active and preferred	1200.0	-	-	1.35	26.0	-
Emitter Controlled Diode 4 Medium Power							
IDC08D120T6M	active and preferred	1200.0	10.0	20.0	1.7	2.7	-
IDC08D120T8M	active and preferred	1200.0	-	-	1.7	2.7	-
IDC10D120T6M	active and preferred	1200.0	15.0	-	1.7	3.5	-
IDC10D120T8M	active and preferred	1200.0	-	-	1.7	3.5	-
IDC15D120T6M	active and preferred	1200.0	25.0	50.0	1.7	5.2	-
IDC15D120T8M	active and preferred	1200.0	-	-	1.7	5.2	-
IDC21D120T6M	active and preferred	1200.0	35.0	70.0	1.7	7.7	-
IDC21D120T8M	active and preferred	1200.0	-	-	1.7	7.7	-
IDC28D120T6M	active and preferred	1200.0	50.0	100.0	1.7	10.0	-
IDC28D120T8M	active and preferred	1200.0	-	-	1.7	10.0	-
IDC40D120T6M	active and preferred	1200.0	75.0	-	1.7	14.0	-
IDC40D120T8M	active and preferred	1200.0	-	-	1.7	14.0	-
IDC51D120T6M	active and preferred	1200.0	100.0	200.0	1.7	18.0	-
IDC51D120T8M	active and preferred	1200.0	-	-	1.7	18.0	-
IDC73D120T8M	active and preferred	1200.0	-	-	1.25	26.0	-

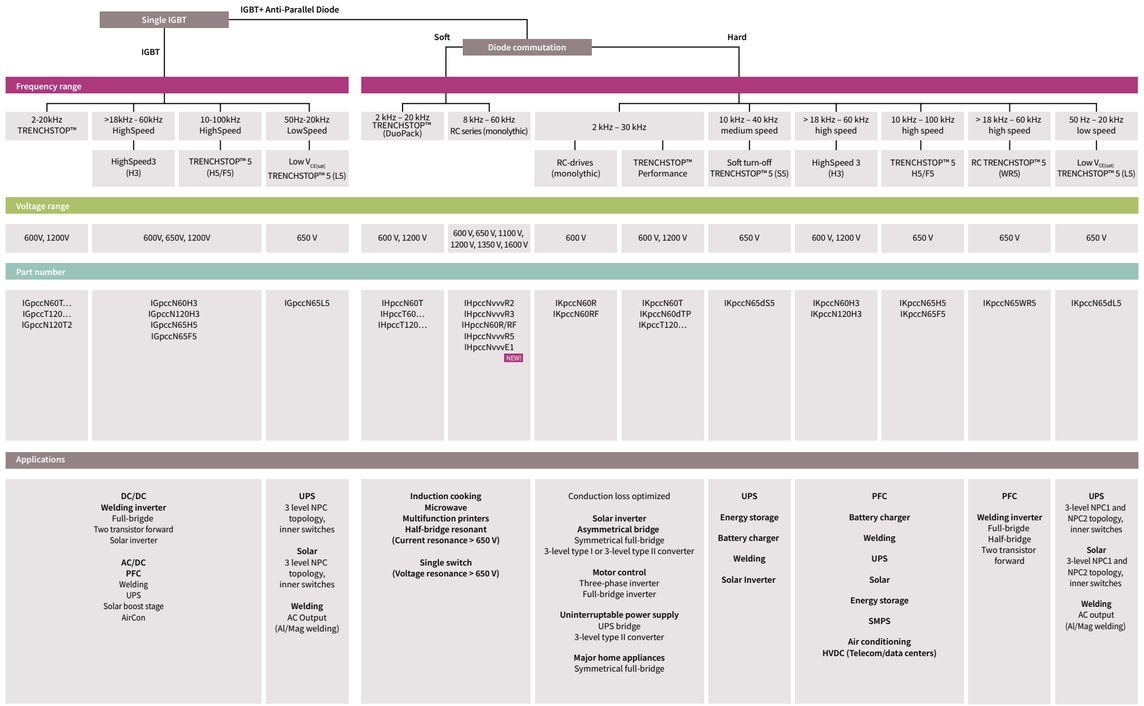
Product	Product Status	V_{DS} max [V]	I_F max [A]	$I_{(FSM)}$ max [A]	V_F [V]	I_R max [uA]	I_{rrm} [A]
Emitter Controlled Diode Fast							
SIDC03D120F6	active and preferred	1200.0	2.0	4.0	2.1	250.0	-
SIDC03D120H8	active and preferred	1200.0	3.0	6.0	1.6	27.0	-
SIDC06D120F6	active and preferred	1200.0	5.0	10.0	2.1	250.0	-
SIDC06D120H8	active and preferred	1200.0	7.5	15.0	1.6	27.0	-
SIDC08D120F6	active and preferred	1200.0	7.0	14.0	2.1	250.0	-
SIDC08D120H8	active and preferred	1200.0	10.0	20.0	1.6	27.0	-
SIDC10D120H8	active and preferred	1200.0	15.0	30.0	1.6	27.0	-
SIDC14D120F6	active and preferred	1200.0	15.0	30.0	2.1	250.0	-
SIDC23D120F6	active and preferred	1200.0	25.0	50.0	2.1	250.0	-
SIDC23D120H8	active and preferred	1200.0	35.0	70.0	1.6	27.0	-
SIDC30D120F6	active and preferred	1200.0	35.0	70.0	2.1	250.0	-
SIDC30D120H8	active and preferred	1200.0	50.0	100.0	1.6	27.0	-
SIDC42D120F6	active and preferred	1200.0	50.0	100.0	2.1	250.0	-
SIDC42D120H8	active and preferred	1200.0	75.0	150.0	1.6	27.0	-
SIDC53D120H8	active and preferred	1200.0	100.0	200.0	1.6	27.0	-
SIDC56D120F6	active and preferred	1200.0	75.0	150.0	2.1	250.0	-
SIDC81D120F6	active and preferred	1200.0	100.0	200.0	2.1	250.0	-
SIDC81D120H8	active and preferred	1200.0	150.0	300.0	1.6	27.0	-
SIDC130D170H	active and preferred	1700.0	235.0	470.0	1.35	11.0	-
Emitter Controlled Diode High Efficiency							
SIDC07D60AF6	active and preferred	600.0	22.5	45.0	1.5	250.0	17.0
SIDC14D120H8	active and preferred	1200.0	25.0	50.0	1.6	27.0	-
SIDC105D120H8	active and preferred	1200.0	200.0	400.0	1.29	2.6	-

Discretes

IGBTs and diodes

Market leadership through groundbreaking innovation and application focus
Striving for the highest standards in performance and quality, Infineon offers a comprehensive application specific discrete IGBT portfolio that is second to none.

IGBT Selection Tree



Discrete IGBT with anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	E_{off} (Soft Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
D2PAK (TO-263)																				
IKB06N60T	active and preferred	600.0	6.0	12.0	18.0	88.0	1.5	0.09	0.11	-	9.0	6.0	130.0	58.0	42.0	12.0	18.0	1.6	190.0	5.3
IKB10N60T	active and preferred	600.0	18.0	24.0	30.0	110.0	1.5	0.16	0.27	-	12.0	8.0	215.0	38.0	62.0	20.0	30.0	1.6	380.0	10.0
IKB15N60T	active and preferred	600.0	23.0	26.0	45.0	130.0	1.5	0.22	0.35	-	17.0	11.0	188.0	50.0	87.0	30.0	45.0	1.65	240.0	10.4
IKB20N60H3	active and preferred	600.0	20.0	40.0	80.0	170.0	1.95	0.45	0.24	-	16.0	20.0	194.0	11.0	120.0	20.0	80.0	1.65	390.0	14.2
IKB20N60T	active and preferred	600.0	15.0	30.0	60.0	166.0	1.5	0.31	0.46	-	18.0	14.0	199.0	42.0	120.0	30.0	45.0	1.65	310.0	10.4
SKB02N120	active and preferred	1200.0	2.8	6.2	9.6	62.0	3.7	0.27	0.11	-	26.0	14.0	290.0	85.0	11.0	4.5	9.0	2.0	100.0	4.2
IRGS6B60KD	active	600.0	7.0	13.0	26.0	90.0	1.8	0.11	0.135	-	25.0	17.0	215.0	13.2	18.2	26.0	-	1.25	-	10.0
IRG4BC10SD-S	active	600.0	8.0	14.0	18.0	38.0	1.58	0.31	3.28	-	76.0	32.0	815.0	720.0	15.0	18.0	-	1.5	40.0	2.9
IRG4BC20KD-S	active	600.0	9.0	16.0	32.0	60.0	2.27	0.34	0.3	-	54.0	34.0	180.0	72.0	34.0	32.0	-	1.4	65.0	3.5
IRGS4056D	active	600.0	12.0	24.0	48.0	140.0	1.55	0.075	0.225	-	31.0	17.0	83.0	24.0	25.0	48.0	-	2.1	-	19.0
IRG4BC30KD-S	active	600.0	16.0	28.0	56.0	100.0	2.21	0.6	0.58	-	60.0	42.0	160.0	80.0	67.0	58.0	-	1.4	80.0	3.5
IRG4BC30FD-S	active	600.0	17.0	31.0	124.0	100.0	1.59	0.63	1.39	-	42.0	26.0	230.0	160.0	51.0	120.0	-	1.4	80.0	3.5
IRGS4062D	active	600.0	24.0	48.0	72.0	250.0	1.6	0.115	0.6	-	41.0	22.0	104.0	29.0	50.0	96.0	-	1.8	-	37.0

Discrete IGBT with anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	E_{off} (Soft Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
DPAK (TO-252)																				
IKD03N60RF	active and preferred	600.0	2.5	5.0	7.5	53.6	2.2	0.05	0.04	-	9.0	8.0	142.0	123.0	17.1	5.0	7.5	2.1	60.0	6.2
IKD04N60R	active and preferred	600.0	4.0	8.0	12.0	75.0	1.65	0.09	0.15	-	14.0	8.0	146.0	171.0	27.0	8.0	12.0	1.7	220.0	11.0
IKD04N60RF	active and preferred	600.0	4.0	8.0	12.0	75.0	2.2	0.06	0.05	-	12.0	7.0	116.0	37.0	27.0	8.0	12.0	2.1	90.0	4.6
IKD06N60R	active and preferred	600.0	6.0	12.0	18.0	100.0	1.65	0.11	0.22	-	12.0	7.0	127.0	152.0	48.0	12.0	18.0	1.7	370.0	12.0
IKD06N60RF	active and preferred	600.0	6.0	12.0	18.0	100.0	2.2	0.09	0.09	-	7.0	8.0	106.0	22.0	48.0	12.0	18.0	2.1	160.0	7.4
IKD10N60R	active and preferred	600.0	10.0	20.0	30.0	150.0	1.65	0.21	0.38	-	14.0	10.0	192.0	139.0	64.0	20.0	30.0	1.7	560.0	20.3
IKD10N60RF	active and preferred	600.0	10.0	20.0	30.0	150.0	2.2	0.19	0.16	-	12.0	15.0	168.0	18.0	64.0	20.0	30.0	2.1	270.0	9.1
IKD15N60R	active and preferred	600.0	15.0	30.0	45.0	250.0	1.65	0.37	0.53	-	16.0	10.0	183.0	136.0	90.0	30.0	45.0	1.7	760.0	27.0
IKD15N60RF	active and preferred	600.0	15.0	30.0	45.0	250.0	2.2	0.27	0.25	-	13.0	15.0	160.0	17.0	90.0	30.0	45.0	2.1	420.0	13.2
IRGR4045D	active	600.0	6.0	12.0	18.0	77.0	1.7	0.056	0.122	-	27.0	11.0	75.0	17.0	13.0	24.0	-	1.6	-	12.0
IRG4RC10SD	active	600.0	8.0	14.0	18.0	38.0	1.58	0.31	3.28	-	76.0	32.0	815.0	720.0	15.0	16.0	-	1.5	40.0	2.9
I2PAK (TO-262)																				
IRG4BC15UD-L	active	600.0	7.8	14.0	42.0	49.0	2.02	0.24	0.26	-	17.0	20.0	160.0	83.0	23.0	16.0	-	1.5	40.0	2.9
Super-247 (TO-274)																				
IRG4PSC71KD	active	600.0	60.0	85.0	200.0	350.0	1.83	3.95	2.33	-	82.0	107.0	282.0	97.0	340.0	200.0	-	1.4	364.0	8.2
IRG4PSC71UD	active	600.0	60.0	85.0	200.0	350.0	1.67	3.26	2.27	-	90.0	94.0	245.0	110.0	340.0	350.0	-	1.4	364.0	8.2
IRGPS4067D	active	600.0	160.0	240.0	360.0	750.0	1.75	5.75	7.99	-	80.0	70.0	190.0	40.0	240.0	480.0	-	1.7	-	36.0
IRGPS46160D	active	600.0	160.0	240.0	360.0	750.0	1.7	5.75	3.43	-	80.0	70.0	190.0	40.0	240.0	480.0	-	2.4	-	36.0
IRGPS66160D	active	600.0	160.0	240.0	360.0	750.0	1.65	4.47	3.43	-	80.0	75.0	190.0	40.0	220.0	480.0	-	1.8	-	34.0
IRGPS40B120UD	active	1200.0	40.0	80.0	160.0	595.0	3.12	1.4	1.65	-	76.0	39.0	332.0	25.0	340.0	160.0	-	2.03	-	50.0
IRG4PSH71KD	active	1200.0	42.0	78.0	156.0	350.0	2.97	5.68	3.23	-	67.0	84.0	230.0	130.0	410.0	156.0	-	2.5	680.0	10.0
IRG4PSH71UD	active	1200.0	50.0	99.0	200.0	350.0	2.52	8.8	9.4	-	46.0	77.0	250.0	220.0	380.0	200.0	-	2.92	350.0	6.0
IRGPS60B120KD	active	1200.0	60.0	105.0	240.0	595.0	2.5	3.214	4.783	-	72.0	32.0	366.0	45.0	340.0	240.0	-	1.93	-	50.0

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	E_{off} (Soft Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
TO-220																				
IKP04N60T	active and preferred	600.0	4.0	8.0	12.0	42.0	1.5	0.06	0.08	-	14.0	7.0	164.0	43.0	27.0	8.0	12.0	1.65	79.0	5.3
IKP06N60T	active and preferred	600.0	6.0	12.0	18.0	88.0	1.5	0.09	0.11	-	9.0	6.0	130.0	58.0	42.0	12.0	18.0	1.6	190.0	5.3
IKP10N60T	active and preferred	600.0	18.0	24.0	30.0	110.0	1.5	0.16	0.27	-	12.0	8.0	215.0	38.0	67.0	24.0	30.0	1.6	380.0	10.0
IKP15N60T	active and preferred	600.0	23.0	26.0	45.0	130.0	1.5	0.22	0.35	-	17.0	11.0	188.0	50.0	87.0	26.0	45.0	1.65	240.0	10.4
IKP20N60H3	active and preferred	600.0	20.0	40.0	80.0	170.0	1.95	0.45	0.24	-	16.0	20.0	194.0	11.0	120.0	20.0	80.0	1.65	390.0	11.0
IKP20N60T	active and preferred	600.0	28.0	41.0	60.0	166.0	1.5	0.31	0.46	-	18.0	14.0	199.0	42.0	120.0	41.0	60.0	1.65	310.0	13.3
IKP08N65F5	active and preferred	650.0	11.0	18.0	24.0	70.0	1.6	0.07	0.02	-	116.0	5.0	116.0	20.0	22.0	20.0	24.0	1.45	140.0	6.6
IKP08N65H5	active and preferred	650.0	11.0	18.0	24.0	70.0	1.65	0.07	0.03	-	11.0	5.0	115.0	15.0	22.0	20.0	24.0	1.45	130.0	6.8
IKP15N65F5	active and preferred	650.0	18.0	30.0	45.0	105.0	1.6	0.13	0.04	-	17.0	7.0	150.0	16.0	38.0	20.0	45.0	1.45	190.0	8.0
IKP15N65H5	active and preferred	650.0	18.0	30.0	45.0	105.0	1.65	0.12	0.05	-	17.0	7.0	160.0	10.0	38.0	20.0	45.0	1.45	200.0	8.0
IKP20N65F5	active and preferred	650.0	21.0	42.0	60.0	125.0	1.6	0.16	0.06	-	18.0	3.0	170.0	30.0	48.0	20.0	60.0	1.65	280.0	10.25
IKP20N65H5	active and preferred	650.0	21.0	42.0	60.0	125.0	1.65	0.17	0.06	-	16.0	3.0	168.0	36.0	48.0	20.0	60.0	1.65	270.0	10.04
IKP30N65F5	active and preferred	650.0	35.0	55.0	90.0	188.0	1.6	0.28	0.07	-	18.0	4.0	174.0	15.0	70.0	36.0	90.0	1.35	410.0	14.4
IKP30N65H5	active and preferred	650.0	35.0	55.0	90.0	188.0	1.65	0.28	0.1	-	18.0	4.0	180.0	22.0	70.0	36.0	90.0	1.35	410.0	14.3
IKP40N65F5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.6	0.36	0.1	-	19.0	13.0	160.0	16.0	95.0	36.0	120.0	1.45	450.0	12.4
IKP40N65H5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.65	0.39	0.12	-	22.0	12.0	165.0	13.0	95.0	36.0	120.0	1.45	450.0	12.5
SKP02N120	active and preferred	1200.0	2.8	6.2	9.6	62.0	3.7	0.27	0.11	-	26.0	14.0	290.0	85.0	11.0	4.5	9.0	2.0	0.1	4.2
IRG6B330UD	active	330.0	40.0	70.0	-	160.0	1.36	-	-	-	47.0	37.0	176.0	99.0	85.0	-	-	1.19	43.0	2.8
IRG4BC10KD	active	600.0	5.0	9.0	9.0	38.0	2.39	0.25	0.14	-	49.0	28.0	97.0	140.0	19.0	16.0	-	1.5	40.0	2.9
IRG4BC20UD	active	600.0	6.5	13.0	52.0	60.0	1.85	0.16	0.13	-	39.0	15.0	93.0	110.0	27.0	52.0	-	1.4	65.0	3.5
IRGB4060D	active	600.0	8.0	16.0	32.0	99.0	1.55	0.07	0.145	-	30.0	15.0	95.0	20.0	19.0	32.0	-	1.8	-	14.0
IRG4BC20FD	active	600.0	9.0	16.0	64.0	60.0	1.66	0.25	0.64	-	43.0	20.0	240.0	150.0	27.0	32.0	-	1.4	65.0	3.5
IRG4BC20KD	active	600.0	9.0	16.0	32.0	60.0	2.27	0.34	0.3	-	54.0	34.0	180.0	72.0	34.0	32.0	-	1.4	65.0	3.5
IRG4BC30UD	active	600.0	12.0	23.0	92.0	100.0	1.95	0.38	0.16	-	40.0	21.0	91.0	80.0	50.0	92.0	-	1.4	80.0	3.5
IRGB15B60KD	active	600.0	15.0	31.0	62.0	139.0	1.8	0.355	0.49	-	34.0	16.0	1840.0	20.0	56.0	64.0	-	1.2	-	29.0
IRG4BC30KD	active	600.0	16.0	28.0	56.0	100.0	2.21	0.6	0.58	-	60.0	42.0	160.0	80.0	67.0	58.0	-	1.4	80.0	3.5
IRG4BC30FD	active	600.0	17.0	31.0	124.0	100.0	1.59	0.63	1.39	-	42.0	26.0	230.0	160.0	51.0	120.0	-	1.4	80.0	3.5
IRGB4061D	active	600.0	18.0	36.0	72.0	206.0	1.65	0.095	0.35	-	40.0	25.0	105.0	25.0	35.0	72.0	-	2.3	-	23.0

Discrete IGBT with anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	E_{off} (Soft Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
TO-220																				
IRGB20B60PD1	active	600.0	22.0	40.0	80.0	215.0	2.5	0.95	0.1	-	20.0	5.0	115.0	6.0	68.0	16.0	-	1.5	40.0	2.9
IRGB4062D	active	600.0	24.0	48.0	72.0	250.0	1.6	0.115	0.6	-	41.0	22.0	104.0	29.0	50.0	96.0	-	1.8	-	37.0
TO-220-3 FullPAK																				
IKA06N60T	active and preferred	600.0	6.2	10.0	18.0	28.0	1.5	0.09	0.11	-	9.0	6.0	130.0	58.0	42.0	10.2	18.0	0.1	500.0	5.3
IKA10N60T	active and preferred	600.0	7.2	11.7	30.0	30.0	1.5	0.16	0.27	-	12.0	8.0	215.0	35.0	67.0	11.9	30.0	1.6	380.0	13.0
IKA15N60T	active and preferred	600.0	8.9	14.7	45.0	35.7	1.5	0.22	0.35	-	17.0	11.0	188.0	50.0	87.0	15.5	45.0	1.65	240.0	10.4
IKA08N65F5	active and preferred	650.0	6.8	10.8	24.0	31.2	1.6	0.07	0.02	-	10.0	5.0	116.0	20.0	22.0	12.3	24.0	1.45	140.0	6.6
IKA08N65H5	active and preferred	650.0	6.8	10.8	24.0	31.2	1.65	0.07	0.03	-	11.0	5.0	115.0	15.0	22.0	12.3	24.0	1.45	130.0	6.8
IKA15N65F5	active and preferred	650.0	8.5	14.0	45.0	33.3	1.6	0.13	0.04	-	150.0	7.0	150.0	16.0	38.0	12.3	45.0	1.45	190.0	8.0
IKA15N65H5	active and preferred	650.0	8.5	14.0	45.0	33.3	1.65	0.12	0.05	-	17.0	7.0	160.0	10.0	38.0	12.3	45.0	1.45	200.0	8.0
IRG4IBC10UD	active	600.0	3.9	6.8	27.0	25.0	2.15	0.14	0.12	-	40.0	16.0	87.0	140.0	15.0	27.0	-	1.5	40.0	2.9
IRG4IBC20KD	active	600.0	6.3	11.5	23.0	34.0	2.27	0.34	0.3	-	54.0	34.0	180.0	72.0	34.0	23.0	-	1.4	65.0	3.5
IRGIB6B60KD	active	600.0	7.0	11.0	22.0	32.0	1.8	0.11	0.135	-	25.0	17.0	215.0	13.2	18.2	18.0	-	1.25	350.0	10.0
IRG4IBC20FD	active	600.0	7.7	14.3	64.0	34.0	1.66	0.25	0.64	-	43.0	20.0	240.0	150.0	27.0	64.0	-	1.4	65.0	3.5
IRGIB7B60KD	active	600.0	8.0	12.0	24.0	39.0	1.8	0.16	0.16	-	23.0	22.0	140.0	32.0	29.0	18.0	-	1.25	620.0	13.0
IRG4IBC30UD	active	600.0	8.9	17.0	68.0	45.0	1.95	0.38	0.16	-	40.0	21.0	91.0	80.0	50.0	92.0	-	1.4	80.0	3.5
IRG4IBC30KD	active	600.0	9.2	17.0	34.0	45.0	2.21	0.6	0.58	-	60.0	42.0	160.0	80.0	67.0	34.0	-	1.4	80.0	3.5
TO-247																				
IKW20N60H3	active and preferred	600.0	20.0	40.0	80.0	170.0	1.95	0.56	0.24	-	17.0	11.0	194.0	11.0	120.0	20.0	80.0	1.65	390.0	11.0
IKW20N60T	active and preferred	600.0	28.0	41.0	60.0	166.0	1.5	0.31	0.46	-	18.0	14.0	199.0	42.0	120.0	40.0	60.0	1.65	310.0	13.3
IKW30N60H3	active and preferred	600.0	30.0	60.0	120.0	187.0	1.95	0.94	0.44	-	21.0	33.0	207.0	22.0	165.0	30.0	120.0	1.65	320.0	12.0
IKW30N60T	active and preferred	600.0	39.0	45.0	90.0	187.0	1.5	1.0	1.1	-	23.0	21.0	254.0	46.0	167.0	60.0	90.0	1.65	920.0	16.3
IKW30N60DTP	active and preferred	600.0	38.0	53.0	90.0	200.0	1.6	0.99	0.74	-	15.0	23.0	220.0	59.0	130.0	39.0	90.0	1.45	1230.0	16.6
IKW40N60H3	active and preferred	600.0	40.0	80.0	160.0	306.0	1.95	1.1	0.58	-	19.0	33.0	197.0	21.0	223.0	40.0	160.0	1.65	810.0	13.6
IHW40N60R	active and preferred	600.0	40.0	80.0	120.0	305.0	1.65	-	0.75	-	-	-	193.0	24.0	223.0	40.0	120.0	1.65	-	-
IHW40N60RF	active and preferred	600.0	40.0	80.0	120.0	305.0	1.85	-	0.56	-	-	-	175.0	14.0	220.0	80.0	120.0	1.75	-	-
IKW40N60DTP	active and preferred	600.0	48.0	67.0	120.0	246.0	1.6	1.63	1.05	-	19.0	30.0	273.0	47.0	177.0	58.0	120.0	1.45	1520.0	18.3
IKW50N60H3	active and preferred	600.0	50.0	100.0	200.0	333.0	1.85	1.45	0.91	-	23.0	37.0	235.0	24.0	315.0	60.0	200.0	1.65	880.0	16.9

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	E_{off} (Soft Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
TO-247																				
IKW50N60T	active and preferred	600.0	50.0	80.0	150.0	333.0	1.5	1.2	1.4	-	26.0	29.0	299.0	29.0	310.0	100.0	150.0	1.65	1.8	27.7
IKW50N60DTP	active and preferred	600.0	61.0	80.0	150.0	319.2	1.6	2.25	1.39	-	21.0	34.0	277.0	55.0	249.0	62.0	150.0	1.45	2150.0	18.8
IKW60N60H3	active and preferred	600.0	60.0	80.0	180.0	416.0	1.85	2.1	1.13	-	25.0	39.0	291.0	23.0	375.0	80.0	90.0	1.65	1200.0	23.0
IKW75N60H3	active and preferred	600.0	75.0	80.0	225.0	428.0	1.85	3.0	1.7	-	31.0	60.0	265.0	27.0	470.0	80.0	150.0	1.65	1800.0	19.0
IKW75N60T	active and preferred	600.0	75.0	80.0	225.0	428.0	1.5	2.9	2.9	-	33.0	36.0	330.0	35.0	470.0	80.0	225.0	1.65	2400.0	38.5
IHW20N65R5	active and preferred	650.0	20.0	40.0	60.0	150.0	1.35	0.54	0.16	-	23.0	16.0	250.0	7.0	97.0	19.0	60.0	1.7	1550.0	29.0
IKW30N65H5	active and preferred	650.0	35.0	55.0	90.0	188.0	1.65	0.28	0.1	-	20.0	11.0	190.0	19.0	70.0	30.0	54.0	1.55	410.0	11.5
IKW30N65EL5	active and preferred	650.0	62.0	85.0	120.0	227.0	1.05	0.47	1.35	-	33.0	11.0	308.0	51.0	168.0	50.0	120.0	1.35	910.0	21.0
IKW30N65NL5	active and preferred	650.0	62.0	85.0	120.0	227.0	1.05	0.56	1.35	-	59.0	20.0	283.0	67.0	168.0	50.0	120.0	1.65	480.0	18.0
IHW30N65R5	active and preferred	650.0	30.0	60.0	90.0	176.0	1.35	0.85	0.24	-	29.0	17.0	220.0	8.0	153.0	23.0	42.0	1.7	1900.0	28.0
IKW30N65WR5	active and preferred	650.0	30.0	60.0	90.0	185.0	1.4	0.99	0.33	-	39.0	12.0	367.0	9.0	155.0	24.0	45.0	1.4	1250.0	22.0
IKW30N65ES5	active and preferred	650.0	39.5	62.0	120.0	188.0	1.35	0.56	0.32	-	17.0	12.0	124.0	30.0	70.0	40.0	120.0	1.45	830.0	18.0
IKW40N65F5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.6	0.36	0.1	-	19.0	13.0	160.0	16.0	95.0	36.0	120.0	1.45	450.0	12.4
IKW40N65H5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.65	0.39	0.12	-	22.0	12.0	165.0	13.0	95.0	36.0	120.0	1.45	450.0	12.5
IHW40N65R5	active and preferred	650.0	40.0	80.0	120.0	230.0	1.35	1.1	0.37	-	34.0	25.0	260.0	13.0	193.0	32.0	120.0	1.7	2750.0	37.2
IKW40N65WR5	active and preferred	650.0	40.0	80.0	120.0	230.0	1.4	1.4	0.42	-	40.0	29.0	402.0	11.0	193.0	32.0	120.0	1.4	1650.0	27.0
IKW40N65ES5	active and preferred	650.0	50.0	79.0	160.0	230.0	1.35	0.86	0.4	-	19.0	18.0	130.0	23.0	95.0	79.0	160.0	1.45	1100.0	23.0
IKW50N65F5	active and preferred	650.0	56.0	80.0	150.0	305.0	1.6	0.49	0.16	-	21.0	15.0	175.0	18.0	120.0	40.0	150.0	1.45	550.0	16.5
IKW50N65H5	active and preferred	650.0	56.0	80.0	150.0	305.0	1.65	0.52	0.18	-	21.0	15.0	180.0	18.0	120.0	40.0	150.0	1.45	570.0	16.7
IKW50N65EH5	active and preferred	650.0	50.0	80.0	200.0	275.0	1.65	1.5	0.5	-	25.0	29.0	172.0	35.0	120.0	80.0	200.0	1.35	1100.0	17.0
IHW50N65R5	active and preferred	650.0	50.0	80.0	150.0	282.0	1.35	1.5	0.45	-	30.0	20.0	210.0	8.0	230.0	37.0	150.0	1.7	2750.0	37.0
IKW50N65WR5	active and preferred	650.0	50.0	80.0	150.0	282.0	1.4	1.85	0.7	-	46.0	33.0	400.0	20.0	230.0	37.0	150.0	1.4	1800.0	29.0
IKW50N65ES5	active and preferred	650.0	60.5	80.0	200.0	274.0	1.35	1.23	0.55	-	20.0	27.0	127.0	34.0	120.0	80.0	5.0	1.45	1250.0	25.0
IKW75N65EH5	active and preferred	650.0	75.0	90.0	300.0	395.0	1.65	2.3	0.9	-	28.0	33.0	174.0	41.0	160.0	90.0	300.0	1.35	1330.0	20.5
IKW75N65EL5	active and preferred	650.0	80.0	80.0	300.0	536.0	1.1	1.61	3.2	-	40.0	11.0	275.0	50.0	436.0	90.0	300.0	1.4	1370.0	29.0
IKW75N65ES5	active and preferred	650.0	80.0	80.0	300.0	395.0	1.42	2.4	0.95	-	40.0	46.0	144.0	41.0	164.0	80.0	300.0	1.5	1800.0	31.0
IHW30N110R3	active and preferred	1100.0	30.0	60.0	90.0	333.0	1.55	-	1.15	-	-	-	350.0	16.0	180.0	60.0	90.0	1.35	-	-
IKW08T120	active and preferred	1200.0	8.0	16.0	24.0	70.0	2.2	1.08	1.2	-	40.0	26.0	570.0	140.0	53.0	16.0	24.0	1.7	1000.0	13.0

Discrete IGBT with anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switch-ing) [mJ]	E_{off} (Soft Switch-ing) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
TO-247																				
IHW15N120E1	active and preferred	1200.0	15.0	30.0	45.0	156.0	1.5	-	-	0.03	-	-	140.0	1800.0	90.0	30.0	45.0	2.35	-	-
IKW15N120H3	active and preferred	1200.0	15.0	30.0	60.0	217.0	2.05	1.1	0.45	-	21.0	34.0	260.0	14.0	75.0	15.0	60.0	2.4	800.0	7.7
IKW15T120	active and preferred	1200.0	15.0	30.0	45.0	110.0	2.2	2.0	2.1	-	50.0	35.0	600.0	120.0	85.0	30.0	45.0	1.7	1900.0	17.0
IKW15N120T2	active and preferred	1200.0	15.0	30.0	60.0	235.0	2.2	1.5	1.3	-	31.0	30.0	450.0	176.0	93.0	25.0	60.0	1.75	1300.0	13.0
IHW20N120R5	active and preferred	1200.0	20.0	40.0	60.0	288.0	1.55	-	0.75	-	-	-	350.0	90.0	170.0	40.0	60.0	1.6	-	-
IHW25N120E1	active and preferred	1200.0	25.0	50.0	75.0	231.0	1.5	-	-	0.08	-	-	240.0	1764.0	147.0	50.0	75.0	2.35	-	-
IKW25N120H3	active and preferred	1200.0	25.0	50.0	100.0	326.0	2.05	1.8	0.85	-	26.0	35.0	277.0	17.0	115.0	25.0	100.0	2.4	1200.0	10.4
IKW25T120	active and preferred	1200.0	25.0	50.0	75.0	190.0	2.2	3.0	4.0	-	50.0	32.0	660.0	130.0	155.0	50.0	105.0	1.75	2300.0	21.0
IKW25N120T2	active and preferred	1200.0	25.0	50.0	100.0	349.0	2.2	2.25	2.05	-	25.0	24.0	340.0	164.0	120.0	40.0	100.0	1.65	2050.0	24.0
IHW30N120R3	active and preferred	1200.0	30.0	60.0	90.0	349.0	1.55	-	1.47	0.34	-	-	326.0	39.0	263.0	60.0	90.0	1.6	-	-
IKW40N120H3	active and preferred	1200.0	40.0	80.0	160.0	483.0	2.05	3.2	1.2	-	30.0	57.0	290.0	16.0	185.0	40.0	160.0	2.4	1900.0	12.8
IHW40N120R3	active and preferred	1200.0	40.0	80.0	120.0	429.0	1.55	-	2.02	0.48	-	-	336.0	38.0	335.0	80.0	120.0	1.6	-	-
IKW40T120	active and preferred	1200.0	40.0	75.0	105.0	270.0	2.3	5.0	5.4	-	52.0	40.0	580.0	120.0	203.0	80.0	105.0	1.75	3800.0	2.8
IKW40N120T2	active and preferred	1200.0	40.0	75.0	160.0	480.0	2.3	4.5	3.8	-	32.0	28.0	405.0	195.0	192.0	75.0	160.0	1.75	3300.0	31.0
IHW20N135R5	active and preferred	1350.0	20.0	40.0	60.0	288.0	1.65	-	0.95	-	-	-	235.0	50.0	170.0	40.0	60.0	1.65	-	-
IHW30N135R3	active and preferred	1350.0	30.0	60.0	90.0	349.0	1.65	-	1.93	0.41	-	-	337.0	47.0	263.0	60.0	90.0	1.65	-	-
IHW40N135R3	active and preferred	1350.0	40.0	80.0	120.0	429.0	1.65	-	2.5	0.55	-	-	343.0	98.0	365.0	80.0	120.0	1.65	-	-
IHW30N160R2	active and preferred	1600.0	30.0	60.0	90.0	312.0	2.35	-	4.37	-	-	-	564.0	111.0	94.0	30.0	90.0	2.0	-	-
IHW15N120R3	active	1200.0	15.0	30.0	45.0	254.0	1.48	-	0.7	-	-	-	300.0	46.0	165.0	30.0	45.0	1.55	-	-
IHW25N120R2	active	1200.0	25.0	50.0	75.0	365.0	1.6	-	2.54	-	-	-	373.0	55.8	60.7	25.0	75.0	1.8	-	-
IHW20N120R3	active	1200.0	20.0	40.0	60.0	310.0	1.48	-	0.95	-	0.0	0.0	387.0	25.0	211.0	40.0	40.0	1.55	0.0	0.0
IHW20N135R3	active	1350.0	20.0	40.0	60.0	310.0	1.6	-	1.3	-	-	-	335.0	50.0	195.0	40.0	60.0	1.6	-	-
IRGP4072D	active	300.0	40.0	70.0	120.0	180.0	1.46	0.409	0.838	-	18.0	36.0	144.0	95.0	73.0	120.0	-	2.26	-	36.0
IRG4PC30UD	active	600.0	12.0	23.0	92.0	100.0	1.95	0.38	0.16	-	40.0	21.0	91.0	80.0	50.0	92.0	-	1.4	80.0	3.5
IRG4PC30KD	active	600.0	16.0	28.0	58.0	100.0	2.21	0.6	0.58	-	60.0	42.0	160.0	80.0	67.0	58.0	-	1.4	80.0	3.5
IRG4PC30FD	active	600.0	17.0	31.0	120.0	100.0	1.59	0.63	1.39	-	42.0	26.0	230.0	160.0	51.0	120.0	-	1.4	80.0	3.5
IRG4PC40UD	active	600.0	20.0	40.0	160.0	160.0	1.72	0.71	0.35	-	54.0	57.0	110.0	80.0	100.0	160.0	-	1.3	80.0	4.0
IRGP20B60PD	active	600.0	22.0	40.0	40.0	220.0	2.5	0.095	0.1	-	20.0	5.0	115.0	6.0	68.0	42.0	-	1.4	80.0	3.5

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switch-ing) [mJ]	E_{off} (Soft Switch-ing) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
TO-247																				
IRG4PC40KD	active	600.0	25.0	42.0	84.0	160.0	2.1	0.95	0.76	-	53.0	33.0	110.0	100.0	120.0	84.0	-	1.3	80.0	4.0
IRG4PC40FD	active	600.0	27.0	49.0	196.0	160.0	1.5	0.95	2.01	-	63.0	32.0	230.0	170.0	100.0	200.0	-	1.3	80.0	4.0
IRG4PC50UD	active	600.0	27.0	55.0	220.0	200.0	1.65	0.99	0.59	-	46.0	25.0	140.0	74.0	180.0	220.0	-	1.3	112.0	4.5
IRGP6630D	active	600.0	30.0	47.0	54.0	192.0	1.65	0.075	0.35	-	40.0	25.0	95.0	20.0	30.0	72.0	-	1.6	-	15.0
IRG4PC50KD	active	600.0	30.0	52.0	104.0	104.0	1.84	1.61	0.84	-	63.0	49.0	150.0	95.0	200.0	280.0	-	1.3	112.0	4.5
IRGP35B60PD	active	600.0	34.0	60.0	120.0	308.0	1.85	0.22	0.215	-	26.0	6.0	110.0	8.0	160.0	60.0	-	1.3	80.0	4.0
IRG4PC50FD	active	600.0	39.0	70.0	280.0	200.0	1.45	1.5	2.4	-	55.0	25.0	240.0	140.0	190.0	280.0	-	1.3	112.0	4.5
IRGP4640D	active	600.0	40.0	65.0	72.0	250.0	1.6	0.115	0.6	-	41.0	22.0	104.0	29.0	50.0	96.0	-	1.8	-	37.0
IRGP50B60PD	active	600.0	42.0	75.0	150.0	370.0	2.0	0.61	0.46	-	34.0	26.0	130.0	43.0	240.0	150.0	-	1.5	112.0	4.5
IRGP50B60PD1	active	600.0	45.0	75.0	150.0	390.0	2.14	0.255	0.375	-	30.0	10.0	130.0	11.0	205.0	150.0	-	1.3	80.0	4.0
IRGP4068D	active	600.0	48.0	96.0	144.0	330.0	1.65	0.625	1.275	-	145.0	35.0	165.0	45.0	95.0	192.0	-	0.96	-	-
IRGP4069D	active	600.0	50.0	76.0	105.0	268.0	1.6	0.39	0.632	-	46.0	33.0	105.0	44.0	69.0	140.0	-	2.2	-	25.0
IRGP4066D	active	600.0	90.0	140.0	225.0	454.0	1.7	2.465	2.155	-	50.0	70.0	200.0	60.0	150.0	300.0	-	2.23	-	27.0
IRGP6690D	active	600.0	90.0	140.0	225.0	483.0	1.65	2.4	2.2	-	85.0	86.0	222.0	53.0	140.0	300.0	-	2.3	-	26.0
IRGP4790D	active	650.0	90.0	140.0	225.0	455.0	1.7	2.5	2.2	-	50.0	70.0	200.0	60.0	140.0	300.0	-	2.1	-	27.0
IRG4PF50WD	active	900.0	28.0	51.0	204.0	200.0	2.25	2.63	1.34	-	71.0	50.0	150.0	110.0	160.0	204.0	-	2.5	260.0	5.8
IRG4PH20KD	active	1200.0	5.0	11.0	22.0	60.0	3.17	0.62	0.3	-	50.0	30.0	100.0	250.0	28.0	22.0	-	2.5	183.0	6.0
IRG4PH30KD	active	1200.0	10.0	20.0	40.0	100.0	3.1	0.95	1.15	-	39.0	84.0	220.0	90.0	53.0	40.0	-	3.4	130.0	4.4
IRG4PH40KD	active	1200.0	15.0	30.0	60.0	160.0	2.74	1.31	1.12	-	50.0	31.0	96.0	220.0	94.0	130.0	-	2.6	140.0	4.5
IRG4PH40UD	active	1200.0	21.0	41.0	82.0	160.0	2.43	1.8	1.93	-	46.0	35.0	97.0	240.0	86.0	130.0	-	2.6	80.0	4.5
IRG4PH40UD2-E	active	1200.0	21.0	41.0	82.0	160.0	2.43	1.95	1.71	-	22.0	26.0	100.0	200.0	100.0	40.0	-	3.4	130.0	4.4
IRG4PH50KD	active	1200.0	24.0	45.0	90.0	200.0	2.77	3.83	1.9	-	87.0	100.0	140.0	200.0	180.0	90.0	-	2.5	260.0	5.8
IRG4PH50UD	active	1200.0	24.0	45.0	180.0	200.0	2.78	2.1	3.6	-	47.0	24.0	110.0	180.0	160.0	180.0	-	2.5	260.0	5.8
IRGP30B120KD-E	active	1200.0	30.0	60.0	120.0	300.0	2.46	1.066	1.493	-	50.0	25.0	210.0	60.0	169.0	120.0	-	1.86	-	34.0

Discrete IGBT with anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@100°) max [A]	I_C (@25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	E_{off} (Soft Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]	I_F max [A]	I_{Fpuls} max [A]	V_F [V]	Q_{rr} [nC]	I_{rrm} [A]
TO-247-4																				
IKZ50N65EH5	active and preferred	650.0	54.0	85.0	200.0	273.0	1.65	0.41	0.19	-	20.0	7.0	250.0	21.0	109.0	95.0	200.0	1.35	820.0	24.0
IKZ50N65NH5	active and preferred	650.0	54.0	85.0	200.0	273.0	1.65	0.35	0.2	-	22.0	8.0	252.0	23.0	109.0	79.0	200.0	1.6	490.0	22.0
IKZ75N65EH5	active and preferred	650.0	75.0	90.0	300.0	395.0	1.65	0.68	0.43	-	26.0	11.0	347.0	15.0	166.0	95.0	300.0	1.35	1020.0	29.0
IKZ75N65NH5	active and preferred	650.0	75.0	90.0	300.0	395.0	1.65	0.88	0.52	-	52.0	19.0	412.0	19.0	166.0	95.0	219.0	1.6	570.0	26.0
IKZ75N65EL5	active and preferred	650.0	100.0	100.0	300.0	536.0	1.1	1.57	3.2	-	120.0	23.0	275.0	50.0	436.0	90.0	300.0	1.4	1300.0	37.0
TO-247PLUS-3																				
IKQ100N60T	active and preferred	600.0	100.0	160.0	400.0	714.0	1.5	3.1	2.5	-	30.0	38.0	290.0	31.0	610.0	160.0	400.0	1.65	2800.0	23.0
IKQ120N60T	active and preferred	600.0	120.0	160.0	480.0	833.0	1.5	6.2	5.9	-	50.0	75.0	565.0	68.0	703.0	160.0	480.0	1.65	3400.0	26.5

Discrete IGBT without anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@ 100°) max [A]	I_C (@ 25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]
D2PAK (TO-263)														
IGB10N60T	active and preferred	600.0	18.0	24.0	30.0	110.0	1.5	0.16	0.27	10.0	11.0	233.0	63.0	62.0
IGB15N60T	active and preferred	600.0	23.0	26.0	45.0	130.0	1.5	0.22	0.35	17.0	11.0	188.0	50.0	87.0
IGB20N60H3	active and preferred	600.0	20.0	40.0	80.0	170.0	1.95	0.45	0.24	16.0	20.0	194.0	11.0	120.0
IGB30N60H3	active and preferred	600.0	30.0	60.0	120.0	187.0	1.95	0.73	0.44	18.0	22.0	207.0	22.0	165.0
IGB30N60T	active and preferred	600.0	39.0	45.0	90.0	187.0	1.5	0.69	0.77	23.0	21.0	254.0	46.0	167.0
IGB50N60T	active and preferred	600.0	90.0	64.0	150.0	333.0	1.5	1.2	1.4	26.0	29.0	299.0	29.0	310.0
SGB02N120	active and preferred	1200.0	2.8	6.2	9.6	62.0	3.7	0.27	0.11	26.0	14.0	290.0	85.0	11.0
SGB07N120	active and preferred	1200.0	7.9	16.5	27.0	125.0	3.7	1.0	0.7	30.0	26.0	490.0	30.0	70.0
SGB15N120	active and preferred	1200.0	15.0	30.0	52.0	198.0	3.7	1.9	1.5	38.0	30.0	652.0	31.0	130.0
IRGS6B60K	active	600.0	7.0	13.0	26.0	90.0	1.8	0.11	0.135	25.0	17.0	215.0	13.2	29.0
IRGS14C40L	active	430.0	14.0	20.0	-	125.0	1.55	-	-	-	-	-	-	56.0
IRG4BC40WS	active	600.0	20.0	40.0	160.0	160.0	2.05	0.11	0.23	30.0	19.0	220.0	160.0	28.0
IRG4BH20K-S	active	1200.0	5.0	11.0	22.0	60.0	3.17	0.45	0.44	23.0	28.0	100.0	620.0	27.0
DPAK (TO-252)														
IGD06N60T	active and preferred	600.0	6.0	12.0	18.0	88.0	1.5	0.09	0.11	9.0	6.0	130.0	6.0	42.0
SGD02N120	active and preferred	1200.0	2.8	6.2	9.6	62.0	3.7	0.27	0.11	26.0	14.0	290.0	85.0	11.0
I2PAK (TO-262)														
IRG4BC40WL	active	600.0	20.0	40.0	160.0	160.0	2.05	0.11	0.23	30.0	19.0	220.0	160.0	100.0
Super-247 (TO-274)														
IRGPS40B120U	active	1200.0	40.0	80.0	160.0	595.0	3.12	1.4	1.65	76.0	39.0	332.0	25.0	-

Discrete IGBT without anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@ 100°) max [A]	I_C (@ 25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]
TO-220														
IGP06N60T	active and preferred	600.0	6.0	12.0	18.0	88.0	1.5	0.09	0.11	9.0	6.0	130.0	58.0	42.0
IGP10N60T	active and preferred	600.0	18.0	24.0	30.0	110.0	1.5	0.16	0.27	12.0	8.0	215.0	38.0	62.0
IGP15N60T	active and preferred	600.0	23.0	26.0	45.0	130.0	1.5	0.22	0.35	17.0	11.0	188.0	50.0	87.0
IGP20N60H3	active and preferred	600.0	20.0	40.0	80.0	170.0	1.95	0.45	0.24	16.0	194.0	194.0	11.0	120.0
IGP30N60H3	active and preferred	600.0	30.0	60.0	120.0	187.0	1.95	0.73	0.44	18.0	22.0	207.0	22.0	165.0
IGP50N60T	active and preferred	600.0	64.0	90.0	150.0	333.0	1.5	1.2	1.4	26.0	29.0	299.0	29.0	310.0
IGP20N65F5	active and preferred	650.0	21.0	42.0	60.0	125.0	1.6	0.16	0.06	18.0	3.0	170.0	30.0	48.0
IGP20N65H5	active and preferred	650.0	21.0	42.0	60.0	125.0	1.65	0.17	0.06	16.0	3.0	168.0	36.0	48.0
IGP30N65F5	active and preferred	650.0	35.0	55.0	90.0	188.0	1.6	0.28	0.07	18.0	4.0	174.0	15.0	70.0
IGP30N65H5	active and preferred	650.0	35.0	55.0	90.0	188.0	1.65	0.28	0.1	18.0	4.0	180.0	22.0	70.0
IGP40N65F5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.6	0.36	0.1	19.0	13.0	160.0	16.0	95.0
IGP40N65H5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.6	0.36	0.1	19.0	13.0	160.0	16.0	95.0
SGP02N120	active and preferred	1200.0	2.8	6.2	9.6	62.0	3.7	0.27	0.11	26.0	14.0	290.0	85.0	11.0
SGP07N120	active and preferred	1200.0	7.9	16.5	27.0	125.0	3.7	1.0	0.7	30.0	26.0	490.0	30.0	70.0
SGP15N120	active and preferred	1200.0	15.0	30.0	52.0	198.0	3.7	1.9	1.5	38.0	30.0	652.0	31.0	130.0
IRGB14C40L	active	430.0	14.0	20.0	-	125.0	1.55	-	-	-	-	-	-	102.0
IRG4BC20S	active	600.0	10.0	19.0	38.0	60.0	1.4	0.12	2.05	25.0	13.0	760.0	780.0	27.0
IRG4BC30U	active	600.0	12.0	23.0	92.0	100.0	1.95	0.16	0.2	20.0	13.0	180.0	140.0	50.0
IRG4BC30W	active	600.0	12.0	23.0	92.0	100.0	2.1	0.13	0.13	20.0	13.0	180.0	140.0	50.0
IRG4BC30S	active	600.0	18.0	34.0	68.0	100.0	1.4	0.26	3.45	21.0	19.0	790.0	760.0	50.0
IRG4BC40U	active	600.0	20.0	40.0	160.0	160.0	1.72	0.32	0.35	30.0	19.0	220.0	160.0	100.0
IRG4BC40W	active	600.0	20.0	40.0	160.0	160.0	2.05	0.11	0.23	30.0	19.0	220.0	160.0	100.0
IRG4BC40K	active	600.0	25.0	42.0	84.0	160.0	2.1	0.62	0.33	30.0	18.0	190.0	150.0	100.0
IRG4BC40F	active	600.0	27.0	49.0	196.0	160.0	1.5	0.37	1.81	25.0	21.0	380.0	310.0	120.0
IRG4BC40S	active	600.0	31.0	60.0	120.0	160.0	1.32	0.45	6.5	23.0	21.0	1000.0	940.0	100.0
IRGB30B60K	active	600.0	50.0	78.0	120.0	370.0	1.95	0.35	0.825	46.0	28.0	185.0	31.0	12.0

Product	Product Status	Voltage Class max [V]	I_C (@ 100°) max [A]	I_C (@ 25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]
TO-220-3 FullPAK														
IRG4IBC30W	active	600.0	8.4	17.0	92.0	45.0	2.1	0.13	0.13	20.0	13.0	180.0	140.0	51.0
TO-247														
IGW20N60H3	active and preferred	600.0	20.0	40.0	80.0	170.0	1.95	0.56	0.24	17.0	23.0	194.0	11.0	120.0
IGW30N60H3	active and preferred	600.0	30.0	60.0	120.0	187.0	1.95	0.94	0.6	20.0	30.0	239.0	23.0	165.0
IGW30N60T	active and preferred	600.0	39.0	45.0	90.0	187.0	1.5	0.69	0.77	23.0	21.0	254.0	46.0	167.0
IGW30N60TP	active and preferred	600.0	38.0	53.0	90.0	200.0	1.6	0.99	0.74	15.0	23.0	220.0	59.0	130.0
IGW40N60H3	active and preferred	600.0	40.0	80.0	160.0	306.0	1.95	1.1	0.58	19.0	33.0	197.0	21.0	223.0
IGW40N60TP	active and preferred	600.0	48.0	67.0	120.0	246.0	1.6	1.63	1.05	19.0	30.0	273.0	47.0	177.0
IGW50N60H3	active and preferred	600.0	50.0	100.0	200.0	333.0	1.85	1.45	0.91	23.0	37.0	235.0	24.0	315.0
IGW50N60T	active and preferred	600.0	64.0	90.0	150.0	333.0	1.5	1.2	1.4	26.0	29.0	299.0	29.0	310.0
IGW50N60TP	active and preferred	600.0	61.0	80.0	150.0	319.2	1.6	2.25	1.39	21.0	34.0	277.0	55.0	249.0
IGW60N60H3	active and preferred	600.0	60.0	80.0	180.0	416.0	1.85	2.1	1.13	27.0	44.0	252.0	27.0	375.0
IGW75N60H3	active and preferred	600.0	75.0	140.0	225.0	428.0	1.85	3.0	1.7	31.0	60.0	265.0	27.0	470.0
IGW75N60T	active and preferred	600.0	75.0	150.0	225.0	428.0	1.5	2.0	2.5	33.0	36.0	330.0	35.0	470.0
IGW100N60H3	active and preferred	600.0	120.0	140.0	300.0	714.0	1.85	3.7	1.9	30.0	47.0	265.0	30.0	625.0
IGW30N65L5	active and preferred	650.0	62.0	85.0	120.0	227.0	1.05	0.47	1.35	33.0	11.0	308.0	51.0	168.0
IGW40N65F5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.6	0.36	0.1	19.0	13.0	160.0	16.0	95.0
IGW40N65H5	active and preferred	650.0	46.0	74.0	120.0	255.0	1.65	0.39	0.12	22.0	12.0	165.0	13.0	95.0
IGW50N65F5	active and preferred	650.0	56.0	80.0	150.0	305.0	1.6	0.49	0.16	21.0	15.0	175.0	18.0	120.0
IGW50N65H5	active and preferred	650.0	56.0	80.0	150.0	305.0	1.65	0.52	0.18	21.0	15.0	180.0	18.0	120.0
IGW75N65H5	active and preferred	650.0	75.0	120.0	300.0	395.0	1.65	2.25	0.95	28.0	33.0	174.0	41.0	160.0
IGW30N100T	active and preferred	1000.0	30.0	60.0	90.0	412.0	1.55	2.2	1.6	33.0	21.0	535.0	34.0	217.0
IGW08T120	active and preferred	1200.0	8.0	16.0	24.0	70.0	2.2	1.08	1.2	40.0	26.0	570.0	140.0	53.0
IGW15N120H3	active and preferred	1200.0	15.0	30.0	60.0	217.0	2.05	1.1	0.45	21.0	34.0	260.0	14.0	75.0
IGW15T120	active and preferred	1200.0	15.0	30.0	45.0	110.0	2.2	2.0	2.1	50.0	35.0	600.0	120.0	85.0
IGW25N120H3	active and preferred	1200.0	25.0	50.0	100.0	326.0	2.05	1.8	0.85	27.0	41.0	277.0	17.0	115.0
IGW25T120	active and preferred	1200.0	25.0	50.0	75.0	190.0	2.2	3.0	4.0	50.0	32.0	660.0	130.0	155.0
IGW40N120H3	active and preferred	1200.0	40.0	80.0	160.0	483.0	2.05	3.2	1.2	30.0	57.0	290.0	16.0	185.0

Discrete IGBT without anti-parallel diode

Product	Product Status	Voltage Class max [V]	I_C (@ 100°) max [A]	I_C (@ 25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]
TO-247														
IGW40T120	active and preferred	1200.0	40.0	75.0	105.0	270.0	2.3	5.0	5.4	52.0	40.0	580.0	120.0	203.0
IGW60T120	active and preferred	1200.0	60.0	100.0	150.0	375.0	2.3	6.4	9.4	50.0	45.0	600.0	130.0	280.0
IRG4PC30F	active	600.0	17.0	31.0	124.0	100.0	1.59	0.23	1.18	20.0	16.0	290.0	350.0	67.0
IRG4PC30S	active	600.0	18.0	34.0	68.0	100.0	1.4	0.26	3.45	21.0	19.0	790.0	760.0	50.0
IRG4PC40W	active	600.0	20.0	40.0	160.0	160.0	2.05	0.11	0.23	30.0	19.0	220.0	160.0	190.0
IRG4PC40F	active	600.0	27.0	49.0	196.0	160.0	1.5	0.37	1.81	25.0	21.0	380.0	310.0	120.0
IRG4PC50U	active	600.0	27.0	55.0	220.0	200.0	1.65	0.12	0.54	31.0	23.0	230.0	120.0	180.0
IRG4PC50W	active	600.0	27.0	55.0	220.0	200.0	1.93	0.08	0.32	31.0	23.0	230.0	120.0	290.0
IRG4PC40S	active	600.0	31.0	60.0	120.0	160.0	1.32	0.45	6.5	23.0	21.0	1000.0	940.0	100.0
IRG4PC50F	active	600.0	39.0	70.0	280.0	200.0	1.45	0.37	2.1	28.0	24.0	390.0	230.0	190.0
IRG4PC60U	active	600.0	40.0	75.0	300.0	520.0	1.7	0.28	1.1	36.0	42.0	300.0	160.0	310.0
IRGP4640	active	600.0	40.0	65.0	72.0	250.0	1.6	0.1	0.6	41.0	22.0	104.0	29.0	96.0
IRG4PC50S	active	600.0	41.0	70.0	140.0	200.0	1.28	0.72	8.27	31.0	31.0	1080.0	620.0	180.0
IRG4PC60F	active	600.0	60.0	90.0	360.0	520.0	1.5	0.3	4.6	39.0	66.0	470.0	300.0	310.0
IRGP4263	active	650.0	60.0	90.0	192.0	300.0	1.7	1.7	1.0	70.0	60.0	140.0	30.0	140.0
IRG4PF50W	active	900.0	28.0	51.0	300.0	200.0	2.25	0.19	1.06	36.0	42.0	300.0	160.0	28.0
IRG4PH20K	active	1200.0	5.0	11.0	22.0	60.0	3.17	0.45	0.44	23.0	28.0	100.0	620.0	53.0
IRG4PH30K	active	1200.0	10.0	20.0	40.0	100.0	3.1	0.64	0.92	27.0	26.0	310.0	330.0	94.0
IRGP20B120U-E	active	1200.0	20.0	40.0	120.0	300.0	3.05	0.85	0.425	50.0	20.0	204.0	24.0	50.0
IRG4PH40U	active	1200.0	21.0	41.0	82.0	160.0	2.43	1.04	3.4	42.0	32.0	240.0	510.0	180.0
IRG4PH50K	active	1200.0	24.0	45.0	90.0	200.0	2.43	1.21	2.25	35.0	29.0	380.0	280.0	167.0
IRG4PH50U	active	1200.0	24.0	45.0	180.0	200.0	2.78	0.53	1.41	31.0	18.0	320.0	280.0	340.0
IRG4PH50S	active	1200.0	33.0	57.0	114.0	200.0	1.47	1.8	19.6	32.0	30.0	1170.0	1000.0	167.0

Product	Product Status	Voltage Class max [V]	I_C (@ 100°) max [A]	I_C (@ 25°) max [A]	I_{Cpuls} max [A]	P_{tot} max [W]	$V_{CE(sat)}$ [V]	E_{on} [mJ]	E_{off} (Hard Switching) [mJ]	$t_{d(on)}$ [ns]	t_r [ns]	$t_{d(off)}$ [ns]	t_f [ns]	Q_{Gate} [nC]
TO-247-4														
IGZ50N65H5	active and preferred	650.0	54.0	85.0	200.0	273.0	1.65	0.41	0.19	20.0	7.0	250.0	21.0	109.0
IGZ75N65H5	active and preferred	650.0	75.0	119.0	300.0	395.0	1.65	0.68	0.43	26.0	11.0	347.0	15.0	166.0
IGZ100N65H5	active and preferred	650.0	101.0	161.0	400.0	536.0	1.65	0.85	0.77	30.0	9.0	421.0	15.0	210.0
TO-251														
IGU04N60T	active and preferred	600.0	4.0	8.0	12.0	42.0	1.5	0.061	0.084	14.0	7.0	164.0	43.0	27.0

600 V / 1200 V ultra soft diodes

Product	Product Status	Voltage Class max [V]	I_F [A]	I_F max [A]	$I_{(FSM)}$ max [A]	V_F [V]	V_F max [V]
PG-TO220-2							
IDP15E60	active and preferred	600.0	15.0	29.2	60.0	1.5	1.5
IDP30E60	active and preferred	600.0	30.0	52.3	117.0	1.5	1.5
IDP45E60	active and preferred	600.0	45.0	71.0	162.0	1.5	1.5
IDP12E120	active and preferred	1200.0	12.0	28.0	63.0	1.65	1.65
IDP18E120	active and preferred	1200.0	18.0	31.0	78.0	1.65	1.65
IDP30E120	active and preferred	1200.0	30.0	50.0	102.0	1.65	1.65
PG-TO247-3							
IDW30E60	active and preferred	600.0	75.0	120.0	150.0	1.65	-
IDW50E60	active and preferred	600.0	50.0	80.0	240.0	1.65	1.65
IDW75E60	active and preferred	600.0	75.0	120.0	220.0	1.65	1.65
IDW100E60	active and preferred	600.0	100.0	150.0	400.0	1.65	1.65
PG-TO252-3							
IDD06E60	active and preferred	600.0	6.0	14.7	29.0	1.5	1.5
IDD09E60	active and preferred	600.0	9.0	19.3	40.0	1.5	1.5
IDD15E60	active and preferred	600.0	15.0	29.2	60.0	1.5	2.0
PG-TO263-3							
IDB15E60	active and preferred	600.0	15.0	29.2	60.0	1.5	1.5
IDB30E60	active and preferred	600.0	30.0	52.3	117.0	1.5	1.5
IDB30E120	active and preferred	1200.0	30.0	50.0	102.0	1.65	1.65

650 V Rapid 1 and Rapid 2 Diode

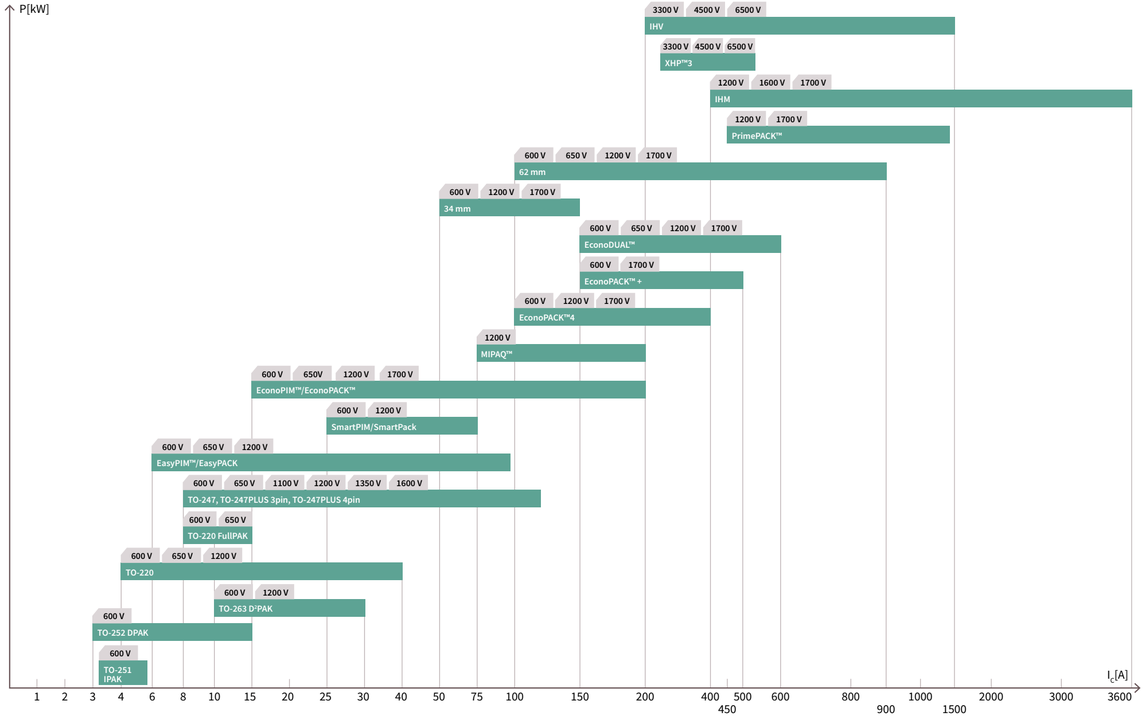
Product	Product Status	Configuration	I_F [A]	IF max [A]	$I_{(FSM)}$ max [A]	V_F [V]	V_F max [V]
PG-TO220-2							
IDP08E65D1	active and preferred	Single	8.0	16.0	64.0	1.35	1.35
IDP08E65D2	active and preferred	Single	8.0	16.0	60.0	1.6	1.6
IDV08E65D2	active and preferred	Single	8.0	8.0	60.0	1.6	1.6
IDP15E65D1	active and preferred	Single	15.0	30.0	120.0	1.35	1.35
IDP15E65D2	active and preferred	Single	15.0	30.0	100.0	1.6	1.6
IDV15E65D2	active and preferred	Single	15.0	15.0	100.0	1.6	1.6
IDV20E65D1	active and preferred	Single	15.0	28.0	120.0	1.35	1.7
IDP20E65D2	active and preferred	Single	20.0	40.0	120.0	1.6	2.2
IDP30E65D1	active and preferred	Single	30.0	60.0	180.0	1.35	1.7
IDP30E65D2	active and preferred	Single	30.0	60.0	180.0	1.6	2.2
IDV30E65D2	active and preferred	Single	17.5	30.0	180.0	1.6	2.2
IDP40E65D2	active and preferred	Single	40.0	80.0	250.0	1.6	1.6
PG-TO220-3							
IDP20C65D2	active and preferred	Common Cathode	10.0	20.0	60.0	1.6	2.2
IDP30C65D2	active and preferred	Common Cathode	15.0	30.0	100.0	1.6	2.2
PG-TO247-3							
IDW15E65D2	active and preferred	Single	15.0	30.0	100.0	1.6	1.6
IDW20C65D2	active and preferred	Common Cathode	10.0	20.0	60.0	1.6	2.2
IDW30C65D1	active and preferred	Common Cathode	15.0	30.0	120.0	1.35	1.7
IDW30C65D2	active and preferred	Common Cathode	15.0	30.0	100.0	1.6	2.2
IDW30E65D1	active and preferred	Single	30.0	60.0	240.0	1.35	1.35
IDW40E65D1	active and preferred	Single	40.0	80.0	320.0	1.35	1.35
IDW40E65D2	active and preferred	Single	40.0	80.0	320.0	1.6	1.6
IDW60C65D1	active and preferred	Common Cathode	30.0	60.0	240.0	1.35	1.7
IDW75D65D1	active and preferred	Dual Anode	75.0	150.0	580.0	1.35	1.7
IDW80C65D1	active and preferred	Common Cathode	40.0	80.0	320.0	1.35	1.7
IDW80C65D2	active and preferred	Common Cathode	40.0	80.0	250.0	1.6	2.2

IGBT modules

Low, medium and high power IGBT modules

We offer module concepts providing electrical performance and highest reliability without limiting the design flexibility.

IGBT package overview



IGBT modules up to 600 / 650 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
62 mm									
FD300R06KE3	active and preferred	Chopper	300.0	IGBT3 - E3	1.45	1.55	61.4	106.4	-
FF400R07KE4	active and preferred	Dual	400.0	IGBT4 - E4	1.55	1.55	61.4	106.4	-
FF400R06KE3	active and preferred	Dual	400.0	IGBT3 - E3	1.45	1.55	61.4	106.4	-
FF300R07KE4	active and preferred	Dual	300.0	IGBT4 - E4	1.55	1.55	61.4	106.4	-
FF300R06KE3	active and preferred	Dual	300.0	IGBT3 - E3	1.45	1.55	61.4	106.4	-
FF300R06KE3_B2	active and preferred	Dual	300.0	IGBT3 - E3	1.45	1.55	61.4	106.4	M5 power terminals
FF200R06KE3	active and preferred	Dual	200.0	IGBT3 - E3	1.45	1.55	61.4	106.4	-
EasyPACK 1B									
F3L50R06W1E3_B11	active and preferred	3-level	50.0	IGBT3 - E3	1.45	1.55	33.8	48.0	Phase leg, PressFIT
DF100R07W1H5FP_B53	active and preferred	Booster with NTC	100.0	TRENCHSTOP™ 5	1.35	1.6	33.8	48.0	SiC Schottky diode, TIM, PressFIT
DF100R07W1H5FP_B54	active and preferred	Booster with NTC	100.0	TRENCHSTOP™ 5	1.35	1.6	33.8	48.0	SiC Schottky diode, TIM
F4-75R06W1E3	active and preferred	Fourpack	75.0	IGBT3 - E3	1.45	1.55	33.8	48.0	-
FS50R06W1E3	active and preferred	Sixpack	50.0	IGBT3 - E3	1.45	1.55	33.8	48.0	-
FS50R06W1E3_B11	active and preferred	Sixpack	50.0	IGBT3 - E3	1.45	1.55	33.8	48.0	PressFIT
FS30R06W1E3	active and preferred	Sixpack	30.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FS30R06W1E3_B11	active and preferred	Sixpack	30.0	IGBT3 - E3	1.55	1.6	33.8	48.0	PressFIT
FS20R06W1E3	active and preferred	Sixpack	20.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FS20R06W1E3_B11	active and preferred	Sixpack	20.0	IGBT3 - E3	1.55	1.6	33.8	48.0	PressFIT
EasyPACK 2B									
F3L150R07W2E3_B11	active and preferred	3-level	150.0	IGBT3 - E3	1.45	1.55	48.0	56.7	PressFIT, Phase leg
F3L100R07W2E3_B11	active and preferred	3-level	100.0	IGBT3 - E3	1.45	1.55	48.0	56.7	PressFIT, Phase leg
F3L75R07W2E3_B11	active and preferred	3-level	75.0	IGBT3 - E3	1.45	1.55	48.0	56.7	PressFIT, Phase leg
FS3L50R07W2H3_B11	active and preferred	3-level	50.0	IGBT HighSpeed 3	1.45	1.6	48.0	56.7	PressFIT

IGBT modules up to 600 / 650 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EasyPACK 750									
FS30R06VE3	active	Sixpack	30.0	IGBT3 - E3	1.55	1.6	35.6	25.4	-
FS20R06VE3	active	Sixpack	20.0	IGBT3 - E3	1.55	1.6	25.4	35.6	-
FS20R06VE3_B2	active	Sixpack	20.0	IGBT3 - E3	1.55	1.6	25.4	35.6	-
FS15R06VE3_B2	active	Sixpack	15.0	IGBT3 - E3	1.55	1.6	25.4	35.6	-
FS10R06VE3	active	Sixpack	10.0	IGBT3 - E3	1.55	1.6	25.4	35.6	-
FS10R06VE3_B2	active	Sixpack	10.0	IGBT3 - E3	1.55	1.6	25.4	35.6	-
FS6R06VE3_B2	active	Sixpack	6.0	IGBT3 - E3	1.55	1.6	25.4	35.6	-
EasyPIM™ 1B									
FB30R06W1E3	active	PIM Single Phase Input Rectifier	30.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FB20R06W1E3	active	PIM Single Phase Input Rectifier	20.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FB20R06W1E3_B11	active	PIM Single Phase Input Rectifier	20.0	IGBT3 - E3	1.55	1.6	33.8	48.0	PressFIT
FP30R06W1E3	active and preferred	PIM Three Phase Input Rectifier	30.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FP30R06W1E3_B11	active and preferred	PIM Three Phase Input Rectifier	30.0	IGBT3 - E3	1.55	1.6	33.8	48.0	PressFIT
FP20R06W1E3	active and preferred	PIM Three Phase Input Rectifier	20.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FP20R06W1E3_B11	active and preferred	PIM Three Phase Input Rectifier	20.0	IGBT3 - E3	1.55	1.6	33.8	48.0	PressFIT
FP15R06W1E3	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FP15R06W1E3_B11	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT3 - E3	1.55	1.6	33.8	48.0	PressFIT
FP10R06W1E3	active and preferred	PIM Three Phase Input Rectifier	10.0	IGBT3 - E3	1.55	1.6	33.8	48.0	-
FP10R06W1E3_B11	active and preferred	PIM Three Phase Input Rectifier	10.0	IGBT3 - E3	1.55	1.6	33.8	48.0	PressFIT

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EasyPIM™ 2B									
FP50R06W2E3	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT3 - E3	1.45	1.55	48.0	56.7	-
FP50R06W2E3_B11	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT3 - E3	1.45	1.55	48.0	56.7	PressFIT
EconoDUAL™ 3									
F3L400R07ME4_B22	active and preferred	3-level	400.0	IGBT4 - E4	1.55	1.55	62.0	152.0	Phase leg
F3L400R07ME4_B23	active and preferred	3-level	400.0	IGBT4 - E4	1.55	1.55	62.0	152.0	Phase leg
FD600R06ME3_S2	active and preferred	Chopper	600.0	IGBT3 - E3	1.3	1.15	62.0	152.0	-
FF600R07ME4_B11	active and preferred	Dual	600.0	IGBT4 - E4	1.55	1.55	62.0	152.0	PressFIT
FF450R07ME4_B11	active and preferred	Dual	450.0	IGBT4 - E4	1.55	1.55	62.5	152.0	PressFIT
EconoDUAL™ 3									
FF300R07ME4_B11	active and preferred	Dual	300.0	IGBT4 - E4	1.55	1.55	62.0	152.0	PressFIT
EconoPACK™ 2									
FS100R07N2E4	active and preferred	Sixpack	100.0	IGBT4 - E4	1.55	1.55	45.0	107.5	-
FS100R07N2E4_B11	active and preferred	Sixpack	100.0	IGBT4 - E4	1.55	1.55	45.0	107.5	PressFIT
FS75R07N2E4	active and preferred	Sixpack	75.0	IGBT4 - E4	1.55	1.55	45.0	107.5	-
FS75R07N2E4_B11	active and preferred	Sixpack	75.0	IGBT4 - E4	1.55	1.55	45.0	107.5	PressFIT
FS75R06KE3	active and preferred	Sixpack	75.0	IGBT3 - E3	1.45	1.55	45.0	107.5	-
FS50R07N2E4	active and preferred	Sixpack	50.0	IGBT4 - E4	1.55	1.55	45.0	107.5	-
FS50R07N2E4_B11	active and preferred	Sixpack	50.0	IGBT4 - E4	1.55	1.55	45.0	107.5	PressFIT
FS50R06KE3	active and preferred	Sixpack	50.0	IGBT3 - E3	1.45	1.55	45.0	107.5	-

IGBT modules up to 600 / 650 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPACK™ 3									
F5-75R06KE3_B5	active and preferred	Fourpack	75.0	IGBT3 - E3	1.45	1.55	62.0	122.0	PressFIT
FS200R07N3E4R	active and preferred	Sixpack	200.0	IGBT4 - E4	1.55	1.55	62.0	122.0	-
FS200R07N3E4R_B11	active and preferred	Sixpack	200.0	IGBT4 - E4	1.55	1.55	62.0	122.0	PressFIT
FS200R06KE3	active and preferred	Sixpack	200.0	IGBT3 - E3	1.45	1.55	62.0	122.0	-
FS150R07N3E4	active and preferred	Sixpack	150.0	IGBT4 - E4	1.55	1.55	62.0	122.0	-
FS150R07N3E4_B11	active and preferred	Sixpack	150.0	IGBT4 - E4	1.55	1.55	62.0	122.0	PressFIT
FS150R06KE3	active and preferred	Sixpack	150.0	IGBT3 - E3	1.45	1.55	62.0	122.0	-
FS100R07N3E4	active and preferred	Sixpack	100.0	IGBT4 - E4	1.55	1.55	62.0	122.0	-
FS100R07N3E4_B11	active and preferred	Sixpack	100.0	IGBT4 - E4	1.55	1.55	62.0	122.0	PressFIT
FS100R06KE3	active and preferred	Sixpack	100.0	IGBT3 - E3	1.45	1.55	62.0	122.0	-
EconoPACK™ 4									
F3L300R07PE4	active and preferred	3-level	300.0	IGBT4 - E4	1.55	1.55	70.6	130.0	Phase leg
F3L300R07PE4P	active and preferred	3-level	300.0	IGBT4 - E4	1.55	1.55	70.6	130.0	Phase leg
F3L200R07PE4	active and preferred	3-level	200.0	IGBT4 - E4	1.55	1.55	70.6	130.0	Phase leg
FD400R07PE4R_B6	active and preferred	Chopper	400.0	IGBT4 - E4	1.55	1.55	70.6	130.0	-
DF300R07PE4_B6	active and preferred	Chopper	300.0	IGBT4 - E4	1.55	1.55	70.6	130.0	-
FD300R07PE4_B6	active and preferred	Chopper	300.0	IGBT4 - E4	1.55	1.55	70.6	130.0	-
FS200R07PE4	active and preferred	Sixpack	200.0	IGBT4 - E4	1.55	1.55	70.6	130.0	PressFIT
FS150R07PE4	active and preferred	Sixpack	150.0	IGBT4 - E4	1.55	1.55	70.6	130.0	PressFIT
FS100R07PE4	active and preferred	Sixpack	100.0	IGBT4 - E4	1.55	1.55	70.6	130.0	PressFIT

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPIM™ 2									
FP75R07N2E4	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - E4	1.55	1.55	45.0	107.0	-
FP75R07N2E4_B11	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - E4	1.55	1.55	45.0	107.0	PressFIT
FP50R07N2E4	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - E4	1.55	1.55	45.0	107.0	-
FP50R07N2E4_B11	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - E4	1.55	1.55	45.0	107.0	PressFIT
FP50R06KE3	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT3 - E3	1.45	1.55	45.0	107.0	-
FP30R06KE3	active and preferred	PIM Three Phase Input Rectifier	30.0	IGBT3 - E3	1.55	1.6	45.0	107.0	-
EconoPIM™ 3									
FP150R07N3E4	active and preferred	PIM Three Phase Input Rectifier	150.0	IGBT4 - E4	1.55	1.55	62.0	122.0	-
FP150R07N3E4_B11	active and preferred	PIM Three Phase Input Rectifier	150.0	IGBT4 - E4	1.55	1.55	62.0	122.0	PressFIT
FP100R07N3E4	active and preferred	PIM Three Phase Input Rectifier	100.0	IGBT4 - E4	1.55	1.55	62.0	122.0	-
FP100R07N3E4_B11	active and preferred	PIM Three Phase Input Rectifier	100.0	IGBT4 - E4	1.55	1.55	62.0	122.0	PressFIT
FP100R06KE3	active and preferred	PIM Three Phase Input Rectifier	100.0	IGBT3 - E3	1.45	1.55	62.0	122.0	-
FP75R06KE3	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT3 - E3	1.45	1.55	62.0	122.0	-
SmartPACK 1									
FS75R07U1E4	active and preferred	Sixpack	75.0	IGBT4 - E4	1.55	1.55	44.0	69.5	PressFIT
FS50R07U1E4	active and preferred	Sixpack	50.0	IGBT4 - E4	1.55	1.55	44.0	69.5	PressFIT
SmartPIM 1									
FP50R07U1E4	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - E4	1.55	1.55	44.0	69.5	PressFIT
FP30R07U1E4	active and preferred	PIM Three Phase Input Rectifier	30.0	IGBT4 - E4	1.6	1.6	44.0	69.5	PressFIT

IGBT modules up to 1200 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
34 mm									
FD150R12RT4	active and preferred	Chopper	150.0	IGBT4 - T4	1.75	1.75	34.0	94.0	-
DF150R12RT4	active and preferred	Chopper	150.0	IGBT4 - T4	1.75	1.75	34.0	94.0	-
FF150R12RT4	active and preferred	Dual	150.0	IGBT4 - T4	1.75	1.75	34.0	94.0	-
FF100R12RT4	active and preferred	Dual	100.0	IGBT4 - T4	1.75	1.75	34.0	94.0	-
FF75R12RT4	active and preferred	Dual	75.0	IGBT4 - T4	1.85	1.7	34.0	94.0	-
FF50R12RT4	active and preferred	Dual	50.0	IGBT4 - T4	1.85	1.75	34.0	94.0	-
62 mm									
FF600R12KE4_E	active and preferred	3-level	600.0	IGBT4 - E4	1.75	1.7	61.4	106.4	Common Emitter
FF450R12KE4_E	active and preferred	3-level	450.0	IGBT4 - E4	1.75	1.7	61.4	106.4	Common Emitter
FF300R12KE4_E	active and preferred	3-level	300.0	IGBT4 - E4	1.75	1.65	61.4	106.4	Common Emitter
DF400R12KE3	active and preferred	Chopper	400.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FD400R12KE3	active and preferred	Chopper	400.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
DF300R12KE3	active and preferred	Chopper	300.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FD300R12KE3	active and preferred	Chopper	300.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FD300R12KS4	active	Chopper	300.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
DF200R12KE3	active and preferred	Chopper	200.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FD200R12KE3	active and preferred	Chopper	200.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FD200R12KE3P	active and preferred	Chopper	200.0	IGBT3 - E3	1.7	1.65	61.4	106.4	TIM
FF600R12KE4	active and preferred	Dual	600.0	IGBT4 - E4	1.75	1.7	61.4	106.4	-
FF450R12KT4	active and preferred	Dual	450.0	IGBT4 - T4	1.75	1.7	61.4	106.4	-
FF450R12KT4P	active and preferred	Dual	450.0	IGBT4 - T4	1.75	1.7	61.4	106.4	TIM
FF450R12KE4	active and preferred	Dual	450.0	IGBT4 - E4	1.75	1.7	61.4	106.4	-
FF450R12KE4P	active and preferred	Dual	450.0	IGBT4 - E4	1.75	1.7	61.4	106.4	TIM
FF400R12KT3_E	active	Dual	400.0	IGBT3 - T3	1.7	1.65	61.4	106.4	Common Emitter, Phase leg
FF400R12KT3P_E	active and preferred	Dual	400.0	IGBT3 - T3	1.7	1.65	61.4	106.4	TIM, Common Emitter, Phase leg
FF400R12KT3	active	Dual	400.0	IGBT3 - T3	1.7	1.65	61.4	106.4	-
FF400R12KE3	active	Dual	400.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
62 mm									
FF400R12KE3_B2	active	Dual	400.0	IGBT3 - E3	1.7	1.65	61.4	106.4	M5 power terminals
FF300R12KT4	active and preferred	Dual	300.0	IGBT4 - T4	1.75	1.65	61.4	106.4	-
FF300R12KT4P	active and preferred	Dual	300.0	IGBT4 - T4	1.75	1.65	61.4	106.4	TIM
FF300R12KE4	active and preferred	Dual	300.0	IGBT4 - E4	1.75	1.65	61.4	106.4	-
FF300R12KE4P	active and preferred	Dual	300.0	IGBT4 - E4	1.75	1.65	61.4	106.4	TIM
FF300R12KE4_B2	active and preferred	Dual	300.0	IGBT4 - E4	1.75	1.65	61.4	106.4	M5 power terminals
FF300R12KT3_E	active	Dual	300.0	IGBT3 - T3	1.7	1.65	61.4	106.4	Common Emitter, Phase leg
FF300R12KT3P_E	active and preferred	Dual	300.0	IGBT3 - T3	1.7	1.65	61.4	106.4	"Phase leg
Common Emitter"									
FF300R12KT3	active	Dual	300.0	IGBT3 - T3	1.7	1.65	61.4	106.4	-
FF300R12KE3	active	Dual	300.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FF300R12KS4	active	Dual	300.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
FF300R12KS4P	active and preferred	Dual	300.0	IGBT2 Fast	3.2	2.0	61.4	106.4	TIM
FF200R12KT4	active and preferred	Dual	200.0	IGBT4 - T4	1.75	1.65	61.4	106.4	-
FF200R12KE4	active and preferred	Dual	200.0	IGBT4 - E4	1.75	1.65	61.4	106.4	-
FF200R12KE4P	active and preferred	Dual	200.0	IGBT4 - E4	1.75	1.65	61.4	106.4	TIM
FF200R12KT3	active	Dual	200.0	IGBT3 - T3	1.7	1.65	61.4	106.4	-
FF200R12KT3_E	active	Dual	200.0	IGBT3 - T3	1.7	1.65	61.4	106.4	Common Emitter, Phase leg
FF200R12KE3	active	Dual	200.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FF200R12KS4	active	Dual	200.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
FF150R12KT3G	active	Dual	150.0	IGBT3 - T3	1.7	1.65	61.4	106.4	-
FF150R12KE3G	active	Dual	150.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FF150R12KS4	active	Dual	150.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
FF150R12KS4_B2	active	Dual	150.0	IGBT2 Fast	3.2	2.0	61.4	106.4	M5 power terminals
FF100R12KS4	active	Dual	100.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
FZ900R12KP4	active and preferred	Single switch	900.0	IGBT4 - P4	1.7	1.9	61.4	106.4	-
FZ900R12KE4	active and preferred	Single switch	900.0	IGBT4 - E4	1.75	1.9	61.4	106.4	-
FZ800R12KE3	active	Single switch	800.0	IGBT3 - E3	1.7	2.2	61.4	106.4	-

IGBT modules up to 1200 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
62 mm									
FZ600R12KP4	active and preferred	Single switch	600.0	IGBT4 - P4	1.7	1.8	61.4	106.4	-
FZ600R12KE4	active and preferred	Single switch	600.0	IGBT4 - E4	1.75	1.8	61.4	106.4	-
FZ600R12KE3	active	Single switch	600.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FZ600R12KS4	active	Single switch	600.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
FZ400R12KP4	active and preferred	Single switch	400.0	IGBT4 - P4	1.7	1.65	61.4	106.4	-
FZ400R12KE4	active and preferred	Single switch	400.0	IGBT4 - E4	1.75	1.65	61.4	106.4	-
FZ400R12KE3	active	Single switch	400.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FZ400R12KE3B1	active	Single switch	400.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FD400R12KE3_B5	active	Single switch	400.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FZ400R12KS4	active	Single switch	400.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
FZ300R12KE3G	active	Single switch	300.0	IGBT3 - E3	1.7	1.65	61.4	106.4	-
FD300R12KS4_B5	active	Single switch	300.0	IGBT2 Fast	3.2	2.0	61.4	106.4	-
EasyPACK 1B									
F3L75R12W1H3_B11	active and preferred	3-level	75.0	IGBT HighSpeed 3	1.45	2.15	33.8	48.0	PressFIT, Phase leg
F3L75R12W1H3_B27	active and preferred	3-level	75.0	IGBT HighSpeed 3	1.45	1.85	33.8	48.0	PressFIT, Phase leg
DF200R12W1H3_B27	active	Booster with NTC	200.0	IGBT HighSpeed 3	1.3	2.0	33.8	48.0	PressFIT
FS35R12W1T4	active and preferred	Sixpack	35.0	IGBT4 - T4	1.85	1.65	33.8	48.0	-
FS35R12W1T4_B11	active and preferred	Sixpack	35.0	IGBT4 - T4	1.85	1.65	33.8	48.0	PressFIT
FS25R12W1T4	active and preferred	Sixpack	25.0	IGBT4 - T4	1.85	1.75	33.8	48.0	-
FS25R12W1T4_B11	active and preferred	Sixpack	25.0	IGBT4 - T4	1.85	1.75	33.8	48.0	PressFIT
EasyPACK 1B									
F3L75R12W1H3_B11	active and preferred	3-level	75.0	IGBT HighSpeed 3	1.45	2.15	33.8	48.0	PressFIT, Phase leg
F3L75R12W1H3_B27	active and preferred	3-level	75.0	IGBT HighSpeed 3	1.45	1.85	33.8	48.0	PressFIT, Phase leg
DF200R12W1H3_B27	active	Booster with NTC	200.0	IGBT HighSpeed 3	1.3	2.0	33.8	48.0	PressFIT
FS35R12W1T4	active and preferred	Sixpack	35.0	IGBT4 - T4	1.85	1.65	33.8	48.0	-
FS35R12W1T4_B11	active and preferred	Sixpack	35.0	IGBT4 - T4	1.85	1.65	33.8	48.0	PressFIT
FS25R12W1T4	active and preferred	Sixpack	25.0	IGBT4 - T4	1.85	1.75	33.8	48.0	-
FS25R12W1T4_B11	active and preferred	Sixpack	25.0	IGBT4 - T4	1.85	1.75	33.8	48.0	PressFIT

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EasyPACK 2B									
FS3L25R12W2H3_B11	active and preferred	3-level full-bridge with NTC	25.0	IGBT HighSpeed 3	2.05	1.75	48.0	56.7	PressFIT
F3L15R12W2H3_B27	active and preferred	3-level full-bridge with NTC	15.0	IGBT HighSpeed 3	2.05	1.75	48.0	56.7	PressFIT, Full-bridge
F3L200R12W2H3_B11	active and preferred	3-level full-bridge with NTC	200.0	IGBT HighSpeed 3	1.55	1.55	48.0	56.7	PressFIT, Phase leg
F3L150R12W2H3_B11	active and preferred	3-level full-bridge with NTC	150.0	IGBT HighSpeed 3	1.55	1.45	48.0	56.7	PressFIT, Phase leg
F3L100R12W2H3_B11	active and preferred	3-level full-bridge with NTC	100.0	IGBT HighSpeed 3	1.55	1.35	48.0	56.7	PressFIT, Phase leg
DF120R12W2H3_B27	active and preferred	Booster with NTC	120.0	IGBT HighSpeed 3	2.05	2.0	48.0	56.7	PressFIT
FS75R12W2T4	active and preferred	Sixpack	75.0	IGBT4 - T4	1.85	1.7	48.0	56.7	-
FS75R12W2T4_B11	active and preferred	Sixpack	75.0	IGBT4 - T4	1.85	1.7	48.0	56.7	PressFIT
FS50R12W2T4	active and preferred	Sixpack	50.0	IGBT4 - T4	1.85	1.7	48.0	56.7	-
FS50R12W2T4_B11	active and preferred	Sixpack	50.0	IGBT4 - T4	1.85	1.7	48.0	56.7	PressFIT
EasyPACK 750									
FS15R12VT3	active	Sixpack	15.0	IGBT3 - T3	1.7	1.65	25.4	35.6	-
FS10R12VT3	active	Sixpack	10.0	IGBT3 - T3	1.9	1.65	25.4	35.6	-
EasyPIM™ 1B									
FP15R12W1T4	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT4 - T4	1.85	2.0	33.8	48.0	-
FP15R12W1T4P	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT4 - T4	1.85	2.0	33.8	48.0	TIM
FP15R12W1T4_B3	active	PIM Three Phase Input Rectifier	15.0	IGBT4 - T4	1.85	2.0	33.8	48.0	-
FP15R12W1T4_B11	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT4 - T4	1.85	2.0	33.8	48.0	PressFIT
FP15R12W1T4P_B11	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT4 - T4	1.85	2.0	33.8	48.0	PressFIT, TIM
FP10R12W1T4	active and preferred	PIM Three Phase Input Rectifier	10.0	IGBT4 - T4	1.85	1.75	33.8	48.0	-
FP10R12W1T4P	active and preferred	PIM Three Phase Input Rectifier	10.0	IGBT4 - T4	1.85	1.75	33.8	48.0	TIM
FP10R12W1T4_B3	active	PIM Three Phase Input Rectifier	10.0	IGBT4 - T4	1.85	1.75	33.8	48.0	-
FP10R12W1T4_B11	active and preferred	PIM Three Phase Input Rectifier	10.0	IGBT4 - T4	1.85	1.75	33.8	48.0	PressFIT
FP10R12W1T4P_B11	active and preferred	PIM Three Phase Input Rectifier	10.0	IGBT4 - T4	1.85	1.75	33.8	48.0	PressFIT, TIM
FP06R12W1T4_B3	active	PIM Three Phase Input Rectifier	6.0	IGBT4 - T4	1.5	1.45	33.8	48.0	-

IGBT modules up to 1200 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EasyPIM™ 2B									
FP35R12W2T4	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.65	48.0	56.7	-
FP35R12W2T4P	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.75	48.0	56.7	TIM
FP35R12W2T4_B11	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.65	48.0	56.7	PressFIT
FP35R12W2T4P_B11	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.65	48.0	56.7	PressFIT, TIM
FP25R12W2T4	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	48.0	56.7	-
FP25R12W2T4P	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	48.0	56.7	TIM
FP25R12W2T4_B11	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	48.0	56.7	PressFIT
FP25R12W2T4P_B11	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	48.0	56.7	PressFIT, TIM
FP15R12W2T4	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT4 - T4	1.85	1.75	48.0	56.7	-
EconoDUAL™ 2									
FF200R12MT4	active and preferred	Dual	200.0	IGBT4 - T4	1.75	1.7	45.0	122.0	-
EconoDUAL™ 3									
F3L300R12MT4_B23	active and preferred	3-level	300.0	IGBT4 - T4	1.75	1.65	45.0	152.0	Phase leg
F3L300R12MT4_B22	active and preferred	3-level	300.0	IGBT4 - T4	1.75	1.65	45.0	152.0	Phase leg
F3L300R12ME4_B23	active and preferred	3-level	300.0	IGBT4 - E4	1.75	1.65	62.0	152.0	Phase leg
F3L300R12ME4_B22	active and preferred	3-level	300.0	IGBT4 - E4	1.75	1.65	62.0	152.0	Phase leg
FF600R12ME4C	active	Dual	600.0	IGBT4 - E4	1.75	1.9	62.0	152.0	
FF600R12ME4C_B11	active and preferred	Dual	600.0	IGBT4 - E4	1.75	1.9	62.0	152.0	PressFIT
FF600R12ME4CP_B11	active and preferred	Dual	600.0	IGBT4 - E4	1.75	1.9	62.0	152.0	PressFIT, TIM
FF600R12ME4	active	Dual	600.0	IGBT4 - E4	1.75	1.65	62.0	152.0	-
FF600R12ME4_B11	active and preferred	Dual	600.0	IGBT4 - E4	1.75	1.65	62.0	152.0	PressFIT
FF600R12ME4P_B11	active and preferred	Dual	600.0	IGBT4 - E4	1.75	1.65	62.0	152.0	PressFIT, TIM
FF600R12ME4A_B11	active and preferred	Dual	600.0	IGBT4 - E3	1.75	1.9	62.0	152.0	PressFIT
FF450R12ME4	active	Dual	450.0	IGBT4 - E4	1.75	1.65	62.0	152.0	-
FF450R12ME4_B11	active and preferred	Dual	450.0	IGBT4 - E4	1.75	1.65	62.0	152.0	PressFIT
FF450R12ME4P_B11	active and preferred	Dual	450.0	IGBT4 - E4	1.75	1.65	62.0	152.0	PressFIT, TIM
FF300R12ME4	active	Dual	300.0	IGBT4 - E4	1.75	1.65	62.0	152.0	-
FF300R12ME4_B11	active and preferred	Dual	300.0	IGBT4 - E4	1.75	1.65	62.0	152.0	PressFIT

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoDUAL™ 3									
FF300R12ME4P_B11	active and preferred	Dual	300.0	IGBT4 - E4	1.75	1.65	62.0	152.0	PressFIT, TIM
FF300R12MS4	active and preferred	Dual	300.0	IGBT2 Fast	3.2	2.0	62.0	152.0	-
FF225R12ME4	active	Dual	225.0	IGBT4 - E4	1.85	1.65	62.0	152.0	-
FF225R12ME4_B11	active and preferred	Dual	225.0	IGBT4 - E4	1.85	1.65	62.0	152.0	PressFIT
FF225R12ME4P_B11	active and preferred	Dual	225.0	IGBT 4 - E4	1.85	1.65	62.0	152.0	PressFIT, TIM
FF225R12MS4	active and preferred	Dual	225.0	IGBT2 Fast	3.2	2.0	62.0	152.0	-
FF150R12MS4G	active and preferred	Dual	150.0	IGBT2 Fast	3.2	2.0	62.0	152.0	-
EconoPACK™ + D									
FS450R12OE4	active and preferred	Sixpack	450.0	IGBT4 - E4	1.75	1.65	150.0	162.0	PressFIT
FS450R12OE4P	active and preferred	Sixpack	450.0	IGBT4 - E4	1.75	1.65	150.0	162.0	PressFIT, TIM
FS300R12OE4	active and preferred	Sixpack	300.0	IGBT4 - E4	1.75	1.65	150.0	162.0	PressFIT
FS225R12OE4	active and preferred	Sixpack	225.0	IGBT4 - E4	1.85	1.65	150.0	162.0	PressFIT

IGBT modules up to 1200 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPACK™ 2									
IFF300B12N2E4P_B11	active and preferred	Dual	300.0	IGBT4 - E4	1.85	1.7	45.0	107.5	Current sense shunts, PressFIT, TIM
F4-75R12KS4	active and preferred	Fourpack	75.0	IGBT2 Fast	3.2	2.0	45.0	107.5	-
F4-75R12KS4_B11	active and preferred	Fourpack	75.0	IGBT2 Fast	3.2	2.0	45.0	107.5	PressFIT
F4-50R12KS4	active and preferred	Fourpack	50.0	IGBT2 Fast	3.2	2.0	45.0	107.5	-
F4-50R12KS4_B11	active and preferred	Fourpack	50.0	IGBT2 Fast	3.2	2.0	45.0	107.5	PressFIT
FS100R12KT4	active and preferred	Sixpack	100.0	IGBT4 - T4	1.75	1.7	45.0	107.5	-
FS100R12KT4P_B11	active and preferred	Sixpack	100.0	IGBT4 - T4	1.75	1.7	45.0	107.5	PressFIT, TIM
FS75R12KT4_B11	active and preferred	Sixpack	75.0	IGBT4 - T4	1.85	1.7	45.0	107.5	PressFIT
FS75R12KT4P_B11	active and preferred	Sixpack	75.0	IGBT4 - T4	1.85	1.7	45.0	107.5	PressFIT, TIM
FS75R12KT4_B15	active and preferred	Sixpack	75.0	IGBT4 - T4	1.85	1.7	45.0	107.5	-
FS75R12KT3	active and preferred	Sixpack	75.0	IGBT3 - T3	1.7	1.65	45.0	107.5	-
FS75R12KE3_B9	active and preferred	Sixpack	75.0	IGBT3 - E3	1.7	1.65	45.0	107.5	-
FS75R12KE3	active and preferred	Sixpack	75.0	IGBT3 - E3	1.7	1.65	45.0	107.5	-
FS50R12KT4_B11	active and preferred	Sixpack	50.0	IGBT4 - T4	1.85	1.7	45.0	107.5	PressFIT
FS50R12KT4P_B11	active and preferred	Sixpack	50.0	IGBT4 - T4	1.85	1.7	45.0	107.5	PressFIT, TIM
FS50R12KT4_B15	active and preferred	Sixpack	50.0	IGBT4 - T4	1.85	1.7	45.0	107.5	-
FS50R12KT3	active and preferred	Sixpack	50.0	IGBT3 - T3	1.7	1.65	45.0	107.5	-
FS50R12KE3	active and preferred	Sixpack	50.0	IGBT3 - E3	1.7	1.65	45.0	107.5	-
FS35R12KT3	active and preferred	Sixpack	35.0	IGBT3 - T3	1.7	1.65	45.0	107.5	-
FS35R12KE3G	active and preferred	Sixpack	35.0	IGBT3 - E3	1.7	1.65	45.0	107.5	-
FS25R12KT3	active and preferred	Sixpack	25.0	IGBT3 - T3	1.7	1.65	45.0	107.5	-
FS25R12KE3G	active and preferred	Sixpack	25.0	IGBT3 - E3	1.7	1.65	45.0	107.5	-

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPACK™ 3									
F4-150R12KS4	active and preferred	Fourpack	150.0	IGBT2 Fast	3.2	2.3	62.0	122.0	-
F4-100R12KS4	active and preferred	Fourpack	100.0	IGBT2 Fast	3.2	2.0	62.0	122.0	-
FS200R12KT4R	active and preferred	Sixpack	200.0	IGBT4 - T4	1.75	1.7	62.0	122.0	-
FS200R12KT4R_B11	active and preferred	Sixpack	200.0	IGBT4 - T4	1.75	1.7	62.0	122.0	PressFIT
IFS200B12N3E4_B31	active and preferred	Sixpack	200.0	IGBT4 - E4	1.75	1.7	62.0	122.0	Current sense shunts
FS150R12KT4	active and preferred	Sixpack	150.0	IGBT4 - T4	1.75	1.7	62.0	122.0	-
FS150R12KT4P	active and preferred	Sixpack	150.0	IGBT4 - T4	1.75	1.7	62.0	122.0	TIM
FS150R12KT4_B9	active and preferred	Sixpack	150.0	IGBT4 - T4	1.75	1.7	62.0	122.0	-
FS150R12KT4_B11	active and preferred	Sixpack	150.0	IGBT4 - T4	1.75	1.4	62.0	122.0	PressFIT
FS150R12KT4P_B11	active and preferred	Sixpack	150.0	IGBT4 - T4	1.75	1.4	62.0	122.0	PressFIT, TIM
IFS150B12N3E4_B31	active and preferred	Sixpack	150.0	IGBT4 - E4	1.75	1.7	62.0	122.0	Current sense shunts
IFS150B12N3E4P_B11	active and preferred	Sixpack	150.0	IGBT4 - E4	1.75	1.7	62.0	122.0	Current sense shunts, PressFIT, TIM
FS150R12KT3	active and preferred	Sixpack	150.0	IGBT3 - T3	1.7	1.65	62.0	122.0	-
FS150R12KE3	active and preferred	Sixpack	150.0	IGBT3 - E3	1.7	1.65	62.0	122.0	-
FS100R12KT4G	active and preferred	Sixpack	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	-
FS100R12KT4GP	active and preferred	Sixpack	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	TIM
FS100R12KT4G_B11	active and preferred	Sixpack	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	PressFIT
FS100R12KT4GP_B11	active and preferred	Sixpack	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	PressFIT, TIM
IFS100B12N3E4_B31	active and preferred	Sixpack	100.0	IGBT4 - E4	1.75	1.7	62.0	122.0	Current sense shunts
IFS100B12N3E4P_B11	active and preferred	Sixpack	100.0	IGBT4 - E4	1.75	1.7	62.0	122.0	Current sense shunts, PressFIT, TIM
FS100R12KT3	active and preferred	Sixpack	100.0	IGBT3 - T3	1.7	1.65	62.0	122.0	-
FS100R12KE3	active and preferred	Sixpack	100.0	IGBT3 - E3	1.7	1.65	62.0	122.0	-
FS100R12KS4	active and preferred	Sixpack	100.0	IGBT2 Fast	3.2	2.0	62.0	122.0	-
IFS75B12N3E4_B31	active and preferred	Sixpack	75.0	IGBT4 - E4	1.85	1.7	62.0	122.0	Current sense shunts
IFS75B12N3E4_B32	active and preferred	Sixpack	75.0	IGBT4 - E4	1.85	1.7	62.0	122.0	Current sense shunts
FS75R12KT3G	active and preferred	Sixpack	75.0	IGBT3 - T3	1.7	1.65	62.0	122.0	-
FS75R12KE3G	active and preferred	Sixpack	75.0	IGBT3 - E3	1.7	1.65	62.0	122.0	-
F12-25R12KT4G	active and preferred	Twelvepack	25.0	IGBT4 - T4	1.85	1.75	62.0	122.0	-

IGBT modules up to 1200 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPACK™ 4									
F3L400R12PT4_B26	active and preferred	3-level	400.0	IGBT4 - T4	1.75	1.8	70.6	130.0	PressFIT, Phase leg
F3L300R12PT4_B26	active and preferred	3-level	300.0	IGBT4 - T4	1.75	1.65	70.6	130.0	PressFIT, Phase leg
FD200R12PT4_B6	active and preferred	Chopper	200.0	IGBT4 - T4	1.75	1.75	70.6	130.0	-
DF200R12PT4_B6	active and preferred	Chopper	200.0	IGBT4 - T4	1.75	1.75	70.6	130.0	-
IFS200V12PT4	active	Sixpack	200.0	IGBT4 - T4	1.75	1.7	70.6	130.0	Integrated drivers, Plug n Play
FS200R12PT4	active and preferred	Sixpack	200.0	IGBT4 - T4	1.75	1.7	70.6	130.0	PressFIT
FS200R12PT4P	active and preferred	Sixpack	200.0	IGBT4 - T4	1.75	1.7	70.6	130.0	PressFIT, TIM
FS150R12PT4	active and preferred	Sixpack	150.0	IGBT4 - T4	1.75	1.7	70.6	130.0	PressFIT
IFS100V12PT4	active	Sixpack	100.0	IGBT4 - T4	1.75	1.7	70.6	130.0	Integrated drivers, Plug n Play
FS100R12PT4	active and preferred	Sixpack	100.0	IGBT4 - T4	1.75	1.7	70.6	130.0	PressFIT

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPIM™ 2									
FP50R12KT4	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - T4	1.85	1.7	45.0	107.0	-
FP50R12KT4P	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - T4	1.85	1.7	45.0	107.0	TIM
FP50R12KT4_B11	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - T4	1.85	1.7	45.0	107.0	PressFIT
FP50R12KT4P_B11	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - T4	1.85	1.7	45.0	107.0	PressFIT, TIM
FP40R12KT3	active and preferred	PIM Three Phase Input Rectifier	40.0	IGBT3 - T3	1.8	1.75	45.0	107.0	-
FP40R12KE3	active and preferred	PIM Three Phase Input Rectifier	40.0	IGBT3 - E3	1.8	1.75	45.0	107.0	-
FP35R12KT4	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.7	45.0	107.0	-
FP35R12KT4P	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.7	45.0	107.0	TIM
FP35R12KT4_B11	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.7	45.0	107.0	PressFIT
FP35R12KT4_B15	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.7	45.0	107.0	-
FP25R12KT4	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	45.0	107.0	-
FP25R12KT4_B11	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	45.0	107.0	PressFIT
FP25R12KT4_B15	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	45.0	107.0	-
FP25R12KT3	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT3 - T3	1.7	1.65	45.0	107.0	-
FP25R12KE3	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT3 - E3	1.7	1.65	45.0	107.0	-
FP25R12KS4C	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT2 Fast	3.2	2.05	45.0	107.0	-
FP15R12KT3	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT3 - T3	1.7	1.65	45.0	107.0	-
FP15R12KE3G	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT3 - E3	1.7	1.65	45.0	107.0	-
FP15R12KS4C	active and preferred	PIM Three Phase Input Rectifier	15.0	IGBT2 Fast	3.2	1.75	45.0	107.0	-

IGBT modules up to 1200 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPIM™ 3									
FP100R12KT4	active and preferred	PIM Three Phase Input Rectifier	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	-
FP100R12KT4P	active and preferred	PIM Three Phase Input Rectifier	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	TIM
FP100R12KT4_B11	active and preferred	PIM Three Phase Input Rectifier	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	PressFIT
FP100R12KT4P_B11	active and preferred	PIM Three Phase Input Rectifier	100.0	IGBT4 - T4	1.75	1.7	62.0	122.0	PressFIT, TIM
FP75R12KT4	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - T4	1.85	1.7	62.0	122.0	-
FP75R12KT4P	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - T4	1.85	1.7	62.0	122.0	TIM
FP75R12KT4_B11	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - T4	1.85	1.7	62.0	122.0	PressFIT
FP75R12KT4P_B11	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - T4	1.85	1.7	62.0	122.0	PressFIT, TIM
FP75R12KT4_B15	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - T4	1.85	1.7	62.0	122.0	-
FP75R12KT3	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT3 - T3	1.7	1.65	62.0	122.0	-
FP75R12KE3	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT3 - E3	1.7	1.65	62.0	122.0	-
FP50R12KT4G	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT4 - T4	1.85	1.7	62.0	122.0	-
FP50R12KT3	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT3 - T3	1.7	1.65	62.0	122.0	-
FP50R12KE3	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT3 - E3	1.7	1.65	62.0	122.0	-
FP50R12KS4C	active and preferred	PIM Three Phase Input Rectifier	50.0	IGBT2 Fast	3.2	1.75	62.0	122.0	-
FP40R12KT3G	active and preferred	PIM Three Phase Input Rectifier	40.0	IGBT3 - T3	1.8	1.75	62.0	122.0	-
FP40R12KE3G	active and preferred	PIM Three Phase Input Rectifier	40.0	IGBT3 - E3	1.8	1.75	62.0	122.0	-
IHM									
FF1200R12KE3	active and preferred	Dual	1200.0	IGBT3 - E3	1.7	2.2	140.0	130.0	-
FF800R12KE3	active and preferred	Dual	800.0	IGBT3 - E3	1.7	2.2	140.0	130.0	-

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
IHM B									
FZ3600R12HP4	active and preferred	Single switch	3600.0	IGBT4 - P4	1.7	1.8	140.0	190.0	-
FZ2400R12HP4_B9	active and preferred	Single switch	2400.0	IGBT4 - P4	1.7	1.8	140.0	190.0	-
FZ2400R12HP4	active and preferred	Single switch	2400.0	IGBT4 - P4	1.7	1.8	140.0	130.0	-
FZ2400R12HE4_B9	active and preferred	Single switch	2400.0	IGBT4 - E4	1.75	1.8	140.0	190.0	-
FZ2400R12HE4P_B9	active and preferred	Single switch	2400.0	IGBT4 - E4	1.75	1.8	140.0	190.0	TIM
FZ1800R12HP4_B9	active and preferred	Single switch	1800.0	IGBT4 - P4	1.7	1.8	140.0	190.0	-
FZ1800R12HE4_B9	active and preferred	Single switch	1800.0	IGBT4 - E4	1.75	1.8	140.0	190.0	-
FZ1600R12HP4	active and preferred	Single switch	1600.0	IGBT4 - P4	1.7	1.8	140.0	130.0	-
FZ1200R12HP4	active and preferred	Single switch	1200.0	IGBT4 - P4	1.7	1.8	140.0	130.0	-
FZ1200R12HE4	active and preferred	Single switch	1200.0	IGBT4 - E4	1.75	1.8	140.0	130.0	-
FZ1200R12HE4P	active and preferred	Single switch	1200.0	IGBT4 - E4	1.75	1.8	140.0	130.0	TIM
DD1200S12H4	active and preferred	Diodes	1200.0	Diode	-	1.8	140.0	130.0	-

IGBT modules up to 1200 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
PrimePACK™ 2									
DF900R12IP4D	active and preferred	Chopper	900.0	IGBT4 - P4	1.7	1.65	89.0	172.0	-
DF900R12IP4DV	active and preferred	Chopper	900.0	IGBT4 - P4	1.7	1.65	89.0	172.0	-
FD900R12IP4D	active and preferred	Chopper	900.0	IGBT4 - P4	1.7	1.65	89.0	172.0	-
FD900R12IP4DV	active and preferred	Chopper	900.0	IGBT4 - P4	1.7	1.65	89.0	172.0	-
DF600R12IP4D	active and preferred	Chopper	600.0	IGBT4 - P4	1.7	1.65	89.0	172.0	-
FF1200R12IE5	active and preferred	Dual	1200.0	IGBT5 - E5	1.7	1.9	89.0	172.0	.XT Technology
FF1200R12IE5P	active and preferred	Dual	1200.0	IGBT5 - E5	1.9	1.9	89.0	172.0	.XT Technology, TIM
FF900R12IP4	active and preferred	Dual	900.0	IGBT4 - P4	1.7	1.9	89.0	172.0	-
FF900R12IP4V	active and preferred	Dual	900.0	IGBT4 - P4	1.7	1.9	89.0	172.0	-
FF900R12IP4D	active and preferred	Dual	900.0	IGBT4 - P4	1.7	1.65	89.0	172.0	-
FF900R12IP4DV	active and preferred	Dual	900.0	IGBT4 - P4	1.7	1.65	89.0	172.0	-
FF900R12IP4P	active and preferred	Dual	900.0	IGBT4 - P4	1.7	1.9	89.0	172.0	TIM
FF900R12IE4	active and preferred	Dual	900.0	IGBT4 - E4	1.75	1.9	89.0	172.0	-
FF900R12IE4V	active and preferred	Dual	900.0	IGBT4 - E4	1.75	1.9	89.0	172.0	-
FF900R12IE4P	active and preferred	Dual	900.0	IGBT4 - E4	1.75	1.9	89.0	172.0	TIM
FF600R12IP4	active and preferred	Dual	600.0	IGBT4 - P4	1.7	1.8	89.0	172.0	-
FF600R12IP4V	active and preferred	Dual	600.0	IGBT4 - P4	1.7	1.8	89.0	172.0	-
FF600R12IE4	active and preferred	Dual	600.0	IGBT4 - E4	1.75	1.8	89.0	172.0	-
FF600R12IE4V	active and preferred	Dual	600.0	IGBT4 - E4	1.75	1.8	89.0	172.0	-
FF600R12IS4F	active and preferred	Dual	600.0	IGBT2 Fast	3.2	1.6	89.0	172.0	SiC Schottky diode
FF450R12IE4	active and preferred	Dual	450.0	IGBT4 - E4	1.75	1.9	89.0	172.0	-

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
PrimePACK™ 3									
DF1400R12IP4D	active and preferred	Chopper	1400.0	IGBT4 - P4	1.75	1.65	89.0	250.0	-
FD1400R12IP4D	active and preferred	Chopper	1400.0	IGBT4 - P4	1.75	1.65	89.0	250.0	-
FF1400R12IP4	active and preferred	Dual	1400.0	IGBT4 - P4	1.75	1.9	89.0	250.0	-
FF1400R12IP4P	active and preferred	Dual	1400.0	IGBT4 - P4	1.75	1.9	89.0	250.0	TIM
SmartPACK 1									
FS50R12U1T4	active and preferred	Sixpack	50.0	IGBT4 - T4	1.85	1.7	44.0	69.5	PressFIT
FS35R12U1T4	active and preferred	Sixpack	35.0	IGBT4 - T4	1.85	1.7	44.0	69.5	PressFIT
SmartPIM 1									
FP35R12U1T4	active and preferred	PIM Three Phase Input Rectifier	35.0	IGBT4 - T4	1.85	1.65	44.0	69.5	PressFIT
FP25R12U1T4	active and preferred	PIM Three Phase Input Rectifier	25.0	IGBT4 - T4	1.85	1.75	44.0	69.5	PressFIT

IGBT modules up to 1600 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
62 mm									
FF400R17KE4_E	active and preferred	3-level	400.0	IGBT4 - E4	1.95	1.8	61.4	106.4	Common Emitter
FF500R17KE4	active and preferred	Dual	500.0	IGBT4 - E4	1.95	1.95	61.4	106.4	-
FF400R17KE4	active and preferred	Dual	400.0	IGBT4 - E4	1.95	1.8	61.4	106.4	-
FF300R17KE4	active and preferred	Dual	300.0	IGBT4 - E4	1.95	1.8	61.4	106.4	-
FF300R17KE3	active	Dual	300.0	IGBT3 - E3	2.0	1.8	61.4	106.4	-
FF200R17KE4	active and preferred	Dual	200.0	IGBT4 - E4	1.95	1.8	61.4	106.4	-
FF200R17KE3	active	Dual	200.0	IGBT3 - E3	2.0	1.8	61.4	106.4	-
FF150R17KE4	active and preferred	Dual	150.0	IGBT4 - E4	1.95	1.65	61.4	106.4	-
FZ600R17KE4	active and preferred	Dual	600.0	IGBT4 - E4	1.95	1.8	61.4	106.4	-
FZ600R17KE3	active	Dual	600.0	IGBT3 - E3	2.0	1.8	61.4	106.4	-
FZ600R17KE3_S4	active	Dual	600.0	IGBT3 - E3	2.0	1.8	61.4	106.4	-
FZ400R17KE4	active and preferred	Dual	400.0	IGBT4 - E4	1.95	1.8	61.4	106.4	-
FZ400R17KE3	active	Dual	400.0	IGBT3 - E3	2.0	1.8	61.4	106.4	-
DZ800S17K3	active	Diodes	800.0	Diode	-	1.8	61.4	106.4	-

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoDUAL™ 3									
FF600R17ME4	active	Dual	600.0	IGBT4 - E4	1.95	1.8	62.0	152.0	-
FF600R17ME4_B11	active and preferred	Dual	600.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT
FF600R17ME4P_B11	active and preferred	Dual	600.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT, TIM
FF450R17ME4	active	Dual	450.0	IGBT4 - E4	1.95	1.8	62.0	152.0	-
FF450R17ME4_B11	active and preferred	Dual	450.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT
FF450R17ME4P_B11	active and preferred	Dual	450.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT, TIM
FF300R17ME4	active	Dual	300.0	IGBT4 - E4	1.95	1.8	62.0	152.0	-
FF300R17ME4_B11	active and preferred	Dual	300.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT
FF300R17ME4P_B11	active and preferred	Dual	300.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT, TIM
FF225R17ME4	active	Dual	225.0	IGBT4 - E4	1.95	1.8	62.0	152.0	-
FF225R17ME4_B11	active and preferred	Dual	225.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT
FF225R17ME4P_B11	active and preferred	Dual	225.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT, TIM
F4-250R17MP4_B11	active and preferred	H-Bridge	250.0	IGBT4 - P4	1.8	1.8	62.0	152.0	PressFIT
F4-150R17ME4_B11	active and preferred	H-Bridge	150.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT
F4-100R17ME4_B11	active and preferred	H-Bridge	100.0	IGBT4 - E4	1.95	1.8	62.0	152.0	PressFIT
EconoPACK™ + D									
FS500R17OE4D	active and preferred	Sixpack	500.0	IGBT4 - E4	1.95	1.7	150.0	162.0	PressFIT
FS500R17OE4DP	active and preferred	Sixpack	500.0	IGBT4 - E4	1.95	1.7	150.0	162.0	PressFIT, TIM
FS450R17OE4	active and preferred	Sixpack	450.0	IGBT4 - E4	1.95	1.8	150.0	162.0	PressFIT
FS450R17OE4P	active and preferred	Sixpack	400.0	IGBT4 - E4	1.9	1.8	150.0	162.0	PressFIT, TIM
FS300R17OE4	active and preferred	Sixpack	300.0	IGBT4 - E4	1.95	1.8	150.0	162.0	PressFIT
FS225R17OE4	active and preferred	Sixpack	225.0	IGBT4 - E4	1.95	1.8	150.0	162.0	PressFIT
EconoPACK™ 2									
IFF300B17N2E4P_B11	active and preferred	Dual	300.0	IGBT4 - E4	1.95	1.65	45.0	107.5	Current sense shunts, PressFIT, TIM
FS50R17KE3_B17	active and preferred	Sixpack	50.0	IGBT3 - E3	2.0	1.8	45.0	107.5	-

IGBT modules up to 1600 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
EconoPACK™ 3									
IFS150B17N3E4P_B11	active and preferred	Sixpack	150.0	IGBT4 - E4	1.85	1.65	62.0	122.0	Current sense shunts, PressFIT, TIM
FS150R17N3E4	active and preferred	Sixpack	150.0	IGBT4 - E4	1.95	1.8	62.0	122.0	-
FS150R17N3E4_B11	active and preferred	Sixpack	150.0	IGBT4 - E4	1.95	1.8	62.0	122.0	PressFIT
IFS100B17N3E4P_B11	active and preferred	Sixpack	100.0	IGBT4 - E4	1.85	1.65	62.0	122.0	Current sense shunts, PressFIT, TIM
FS100R17KE3	active and preferred	Sixpack	100.0	IGBT3 - E3	2.0	1.8	62.0	122.0	-
FS100R17N3E4	active and preferred	Sixpack	100.0	IGBT4 - E4	1.95	1.8	62.0	122.0	-
FS100R17N3E4_B11	active and preferred	Sixpack	100.0	IGBT4 - E4	1.95	1.8	62.0	122.0	PressFIT
FS75R17KE3	active and preferred	Sixpack	75.0	IGBT3 - E3	2.0	1.8	62.0	122.0	-
EconoPACK™ 4									
FS150R17PE4	active and preferred	Sixpack	150.0	IGBT4 - E4	1.95	1.8	70.6	130.0	PressFIT
FS100R17PE4	active and preferred	Sixpack	100.0	IGBT4 - E4	1.95	1.8	70.6	130.0	PressFIT
EconoPIM™ 3									
FP75R17N3E4	active and preferred	PIM Three Phase Input Rectifier	75.0	IGBT4 - E4	1.95	1.8	62.0	122.0	-
IHM									
FD1200R17KE3-K	active	Chopper	1200.0	IGBT3 - E3	2.0	1.8	140.0	130.0	-
FD600R17KE3_B2	active	Chopper	600.0	IGBT3 - E3	2.0	1.6	140.0	130.0	Enlarged Diode
FF1200R17KP4_B2	active and preferred	Dual	1200.0	IGBT4 - P4	1.9	1.65	140.0	130.0	Enlarged Diode
FF1200R17KE3	active	Dual	1200.0	IGBT3 - E3	2.0	1.8	140.0	130.0	-
FF800R17KP4_B2	active and preferred	Dual	800.0	IGBT4 - P4	1.9	1.55	140.0	130.0	Enlarged Diode
FF800R17KE3	active	Dual	800.0	IGBT3 - E3	2.0	1.8	140.0	130.0	-
FF600R17KE3_B2	active	Dual	600.0	IGBT3 - E3	2.0	1.6	140.0	130.0	Enlarged Diode
FZ1600R17KE3	active	Single switch	1600.0	IGBT3 - E3	2.0	1.8	140.0	130.0	-
DZ3600S17K3_B2	active and preferred	Diodes	3600.0	Diode	-	1.8	140.0	190.0	-

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
IHM B									
FD1600/1200R17HP4-K_B2	active and preferred	Chopper	1600.0	IGBT4 - P4	1.9	1.65	140.0	190.0	Enlarged Diode
FD1600/1200R17HP4_B2	active and preferred	Chopper	1600.0	IGBT4 - P4	1.9	1.65	140.0	190.0	Enlarged Diode
FD1200R17HP4-K_B2	active and preferred	Chopper	1200.0	IGBT4 - P4	1.9	1.65	140.0	130.0	Enlarged Diode
FD800R17HP4-K_B2	active and preferred	Chopper	800.0	IGBT4 - P4	1.9	1.65	140.0	130.0	Enlarged Diode
FZ3600R17HE4	active and preferred	Single switch	3600.0	IGBT4 - E4	1.95	1.8	140.0	190.0	-
FZ3600R17HE4P	active and preferred	Single switch	3600.0	IGBT4 - E4	1.95	1.8	140.0	190.0	TIM
FZ3600R17HP4	active and preferred	Single switch	3600.0	IGBT4 - P4	1.9	1.8	140.0	190.0	-
FZ3600R17HP4_B2	active and preferred	Single switch	3600.0	IGBT4 - P4	1.9	1.65	140.0	190.0	Enlarged Diode
FZ2400R17HE4_B9	active and preferred	Single switch	2400.0	IGBT4 - E4	1.95	1.8	140.0	190.0	-
FZ2400R17HE4P_B9	active and preferred	Single switch	2400.0	IGBT4 - E4	1.95	1.8	140.0	190.0	TIM
FZ2400R17HP4	active and preferred	Single switch	2400.0	IGBT4 - P4	1.9	1.8	140.0	130.0	-
FZ2400R17HP4_B2	active and preferred	Single switch	2400.0	IGBT4 - P4	1.9	1.65	140.0	130.0	Enlarged Diode
FZ2400R17HP4_B9	active and preferred	Single switch	2400.0	IGBT4 - P4	1.9	1.8	140.0	190.0	-
FZ2400R17HP4_B28	active and preferred	Single switch	2400.0	IGBT4 - P4	1.9	1.8	140.0	190.0	-
FZ2400R17HP4_B29	active and preferred	Single switch	2400.0	IGBT4 - P4	1.9	1.65	140.0	190.0	Enlarged Diode
FZ1800R17HE4_B9	active and preferred	Single switch	1800.0	IGBT4 - E4	1.95	1.8	140.0	190.0	-
FZ1800R17HP4_B9	active and preferred	Single switch	1800.0	IGBT4 - P4	1.9	1.8	140.0	190.0	-
FZ1800R17HP4_B29	active and preferred	Single switch	1800.0	IGBT4 - P4	1.9	1.65	140.0	190.0	Enlarged Diode
FZ1600R17HP4	active and preferred	Single switch	1600.0	IGBT4 - P4	1.9	1.8	140.0	130.0	-
FZ1600R17HP4_B2	active and preferred	Single switch	1600.0	IGBT4 - P4	1.9	1.65	140.0	130.0	Enlarged Diode
FZ1600R17HP4_B21	active and preferred	Single switch	1600.0	IGBT4 - P4	1.9	1.8	140.0	130.0	-
FZ1200R17HE4	active and preferred	Single switch	1200.0	IGBT4 - E4	1.95	1.8	140.0	130.0	-
FZ1200R17HE4P	active and preferred	Single switch	1200.0	IGBT4 - E4	1.95	1.8	140.0	130.0	TIM
FZ1200R17HP4	active and preferred	Single switch	1200.0	IGBT4 - P4	1.9	1.8	140.0	130.0	-
FZ1200R17HP4_B2	active and preferred	Single switch	1200.0	IGBT4 - P4	1.9	1.65	140.0	130.0	Enlarged Diode
DD1200S17H4_B2	active and preferred	Diodes	1200.0	Diode	-	1.8	140.0	130.0	-
DD800S17H4_B2	active and preferred	Diodes	800.0	Diode	-	1.8	140.0	130.0	-

IGBT modules up to 1600 V

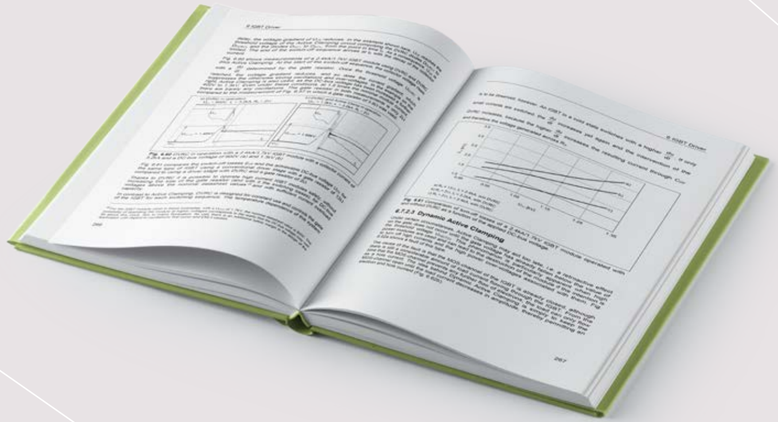
Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
PrimePACK™ 2									
DF650R17IE4	active	Chopper	650.0	IGBT4 - E4	2.0	1.85	89.0	172.0	-
FD650R17IE4	active	Chopper	650.0	IGBT4 - E4	2.0	1.85	89.0	172.0	-
FF650R17IE4	active and preferred	Dual	650.0	IGBT4 - E4	2.0	1.85	89.0	172.0	-
FF650R17IE4V	active and preferred	Dual	650.0	IGBT4 - E4	2.0	1.85	89.0	172.0	-
FF650R17IE4D_B2	active and preferred	Dual	650.0	IGBT4 - E4	2.0	1.7	89.0	172.0	-
FF650R17IE4P	active and preferred	Dual	650.0	IGBT4 - E4	2.0	1.85	89.0	172.0	TIM
FF650R17IE4DP_B2	active and preferred	Dual	650.0	IGBT4 - E4	2.0	1.7	89.0	172.0	TIM
FF450R17IE4	active and preferred	Dual	450.0	IGBT4 - E4	2.0	1.85	89.0	172.0	-
PrimePACK™ 3									
DF1000R17IE4	active and preferred	Chopper	1000.0	IGBT4 - E4	2.0	1.85	89.0	250.0	-
DF1000R17IE4D_B2	active and preferred	Chopper	1000.0	IGBT4 - E4	2.0	1.7	89.0	250.0	-
FD1000R17IE4	active and preferred	Chopper	1000.0	IGBT4 - E4	2.0	1.85	89.0	250.0	-
FD1000R17IE4D_B2	active	Chopper	1000.0	IGBT4 - E4	2.0	1.7	89.0	250.0	-
FF1400R17IP4	active and preferred	Dual	1400.0	IGBT4 - P4	1.75	1.75	89.0	250.0	-
FF1400R17IP4P	active and preferred	Dual	1400.0	IGBT4 - P4	1.75	1.75	89.0	250.0	TIM
FF1000R17IE4	active and preferred	Dual	1000.0	IGBT4 - E4	2.0	1.85	89.0	250.0	-
FF1000R17IE4D_B2	active and preferred	Dual	1000.0	IGBT4 - E4	2.0	1.7	89.0	250.0	-
FF1000R17IE4P	active and preferred	Dual	1000.0	IGBT4 - E4	2.0	1.85	89.0	250.0	TIM
FF1000R17IE4DP_B2	active and preferred	Dual	1000.0	IGBT4 - E4	2.0	1.7	89.0	250.0	TIM
PrimePACK™ 3+									
FF1800R17IP5	active and preferred	Dual	1800.0	IGBT5 - P5	1.75	1.75	89.0	250.0	.XT Technology
FF1800R17IP5P	active and preferred	Dual	1800.0	IGBT5 - P5	1.75	1.75	89.0	250.0	.XT Technology, TIM

IGBT modules up to 3300 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
IHV									
FD800R33KF2C	active	Chopper	800.0	IGBT2	3.4	2.8	190.0	140.0	-
FD800R33KF2C-K	active	Chopper	800.0	IGBT2	3.4	2.8	190.0	140.0	-
FD400R33KF2C	active	Chopper	400.0	IGBT2	3.4	2.8	130.0	140.0	-
FD400R33KF2C-K	active	Chopper	400.0	IGBT2	3.4	2.8	130.0	140.0	-
FF400R33KF2C	active	Dual	400.0	IGBT2	3.4	2.8	130.0	140.0	-
FF200R33KF2C	active	Dual	200.0	IGBT2	3.4	2.8	73.0	140.0	-
FZ1200R33KF2C	active	Single switch	1200.0	IGBT2	3.4	2.8	190.0	140.0	-
FZ800R33KF2C	active and preferred	Single switch	800.0	IGBT2	3.4	2.8	130.0	140.0	-
FZ400R33KL2C_B5	active	Single switch	400.0	IGBT2 Low Loss	3.0	2.6	73.0	140.0	10.2kV isolation
DD1200S33K2C	active	Diodes	1200.0	Diode	-	2.8	130.0	140.0	-
DD800S33K2C	active	Diodes	800.0	Diode	-	2.8	130.0	140.0	-
DD400S33KL2C	active	Diodes	400.0	Diode	-	2.6	73.0	140.0	-
DD400S33K2C	active	Diodes	400.0	Diode	-	2.8	130.0	140.0	-
DD200S33K2C	active	Diodes	200.0	Diode	-	2.8	73.0	140.0	-
IHV B									
FD1000R33HL3-K	active and preferred	Chopper	1000.0	IGBT3 - L3	2.4	2.25	190.0	140.0	-
FD1000R33HE3-K	active and preferred	Chopper	1000.0	IGBT3 - E3	2.55	3.1	190.0	140.0	-
FZ1500R33HL3	active and preferred	Single switch	1500.0	IGBT3 - L3	2.4	2.25	190.0	140.0	-
FZ1500R33HE3	active and preferred	Single switch	1500.0	IGBT3 - E3	2.55	3.1	190.0	140.0	-
FZ1200R33HE3	active and preferred	Single switch	1200.0	IGBT3 - E3	2.7	3.25	190.0	140.0	-
FZ1000R33HL3	active and preferred	Single switch	1000.0	IGBT3 - L3	2.4	2.25	130.0	140.0	-
FZ1000R33HE3	active and preferred	Single switch	1000.0	IGBT3 - E3	2.55	3.1	130.0	140.0	-
DD1000S33HE3	active and preferred	Diodes	1000.0	Diode	-	3.1	130.0	140.0	-
DD500S33HE3	active and preferred	Diodes	500.0	Diode	-	3.1	130.0	140.0	-
XHP™ 3									
FF450R33TE3	for price proj. only	Dual	450.0	IGBT3 - E3	2.55	3.1	140.0	99.8	Phase leg

IGBT modules up to 6500 V

Product	Product Status	Configuration	$I_{C(nom)}$ / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
IHV									
FD800R45KL3-K_B5	active and preferred	Chopper	800.0	IGBT3 - L3	2.5	2.5	190.0	140.0	10.2kV isolation
FD500R65KE3-K	active and preferred	Chopper	500.0	IGBT3 - E3	3.0	3.0	190.0	140.0	10.2kV isolation
FD250R65KE3-K	active and preferred	Chopper	250.0	IGBT3 - E3	3.0	3.0	130.0	140.0	10.2kV isolation
FZ1200R45KL3_B5	active and preferred	Single switch	1200.0	IGBT3 - L3	2.5	2.5	190.0	140.0	10.2kV isolation
FZ800R45KL3_B5	active and preferred	Single switch	800.0	IGBT3 - L3	2.5	2.5	130.0	140.0	10.2kV isolation
FZ750R65KE3	active and preferred	Single switch	750.0	IGBT3 - E3	3.0	3.0	190.0	140.0	10.2kV isolation
FZ600R65KE3	active and preferred	Single switch	600.0	IGBT3 - E3	3.0	3.0	190.0	140.0	10.2kV isolation
FZ500R65KE3	active and preferred	Single switch	500.0	IGBT3 - E3	3.0	3.0	130.0	140.0	10.2kV isolation
FZ400R65KE3	active and preferred	Single switch	400.0	IGBT3 - E3	3.0	3.0	130.0	140.0	10.2kV isolation
FZ250R65KE3	active and preferred	Single switch	250.0	IGBT3 - E3	3.0	3.0	73.0	140.0	10.2kV isolation
DD1200S45KL3_B5	active and preferred	Diodes	1200.0	Diode	-	2.5	130.0	140.0	10.2kV isolation
DD800S45KL3_B5	active and preferred	Diodes	800.0	Diode	-	2.5	130.0	140.0	10.2kV isolation
DD750S65K3	active and preferred	Diodes	750.0	Diode	-	3.0	130.0	140.0	10.2kV isolation
DD600S65K3	active and preferred	Diodes	600.0	Diode	-	3.0	130.0	140.0	10.2kV isolation
DD500S65K3	active and preferred	Diodes	500.0	Diode	-	3.0	130.0	140.0	10.2kV isolation
DD400S45KL3_B5	active and preferred	Diodes	400.0	Diode	-	2.5	130.0	140.0	10.2kV isolation
DD250S65K3	active and preferred	Diodes	250.0	Diode	-	3.0	130.0	140.0	10.2kV isolation
IHV B									
FZ1200R45HL3	active and preferred	Single switch	1200.0	IGBT3 - L3	2.35	2.5	190.0	140.0	-



Reference book IGBT Modules

Technologies, Driver and Application

IGBT Modules – Technologies, Driver and Applications
Andreas Volke (Author), Michael Hornkamp (Author), Jost Wendt (Translator)
ISBN: 978-3-00-040134-3

For further information please visit our website:
www.infineon.com/igbt-book

IPMs

Intelligent Power Modules

Infineon offers a variety of semiconductors in different packages and different voltage- and current classes. These IPMs are separated in CIPOS™ Nano, CIPOS™ Micro and CIPOS™ Mini families.

The CIPOS™ IPMs are families of highly integrated, compact power modules designed to drive motors in applications ranging from home appliances, fans, pumps to general purpose drives.

These energy-efficient intelligent power modules integrate the latest power semiconductor and control ICs technology leveraging Infineon's advanced IGBTs, MOSFETs, next-generation Gate Driver ICs and state-of-the-art thermo-mechanical technology. The modules improve system performance and energy efficiency by delivering increased power density, enhanced system ruggedness and reliability.

A broad selection of modules is offered to enable optimum PCB design, size and system costs. This simplifies the motor drive design, improves reliabilities and lowers component counts while significantly reducing time to market.

Intelligent power modules

Product	Product Status	Package	Configuration	Voltage Class [V]	P_{mot} (10kHz) [W]	Rated Current [A]	$R_{DS\ (on)}$ (25C) max [Ω]	Built in NTC
CIPOS™ Micro								
IRSM506-076DA	active and preferred	DIP23	3 Phase Open Source	600.0	105.0	4.0	-	yes
IRSM506-076PA	active and preferred	SOP23	3 Phase Open Source	600.0	105.0	4.0	-	yes
IRSM516-076DA	active and preferred	DIP23	3 Phase Open Source	600.0	105.0	4.0	-	no
IRSM516-076PA	active and preferred	SOP23	3 Phase Open Source	600.0	105.0	4.0	-	no
IRSM505-015DA	active and preferred	DIP23	3 Phase Open Source	500.0	50.0	-	6.0	yes
IRSM505-015PA	active and preferred	SOP23	3 Phase Open Source	500.0	50.0	-	6.0	yes
IRSM505-025DA	active and preferred	DIP23	3 Phase Open Source	500.0	60.0	-	4.0	yes
IRSM505-025PA	active and preferred	SOP23	3 Phase Open Source	500.0	60.0	-	4.0	yes
IRSM505-035DA	active and preferred	DIP23	3 Phase Open Source	500.0	75.0	-	2.2	yes
IRSM505-035PA	active and preferred	SOP23	3 Phase Open Source	500.0	75.0	-	2.2	yes
IRSM505-055DA	active and preferred	DIP23	3 Phase Open Source	500.0	85.0	-	1.7	yes
IRSM505-055PA	active and preferred	SOP23	3 Phase Open Source	500.0	85.0	-	1.7	yes
IRSM505-065DA	active and preferred	DIP23	3 Phase Open Source	500.0	85.0	-	1.3	yes
IRSM505-065PA	active and preferred	SOP23	3 Phase Open Source	500.0	85.0	-	1.3	yes
IRSM515-015DA	active and preferred	DIP23	3 Phase Open Source	500.0	50.0	-	6.0	no
IRSM515-015PA	active and preferred	SOP23	3 Phase Open Source	500.0	50.0	-	6.0	no
IRSM515-025DA	active and preferred	DIP23	3 Phase Open Source	500.0	60.0	-	4.0	no
IRSM515-025PA	active and preferred	SOP23	3 Phase Open Source	500.0	60.0	-	4.0	no
IRSM515-035DA	active and preferred	DIP23	3 Phase Open Source	500.0	75.0	-	2.2	no
IRSM515-035PA	active and preferred	SOP23	3 Phase Open Source	500.0	75.0	-	2.2	no
IRSM515-055DA	active and preferred	DIP23	3 Phase Open Source	500.0	85.0	-	1.7	no
IRSM515-055PA	active and preferred	SOP23	3 Phase Open Source	500.0	85.0	-	1.7	no
IRSM515-065DA	active and preferred	DIP23	3 Phase Open Source	500.0	85.0	-	1.3	no
IRSM515-065PA	active and preferred	SOP23	3 Phase Open Source	500.0	85.0	-	1.3	no
IRSM505-024DA	active and preferred	DIP23	3 Phase Open Source	250.0	40.0	-	2.2	yes
IRSM505-024PA	active and preferred	SOP23	3 Phase Open Source	250.0	40.0	-	2.2	yes
IRSM505-044DA	active and preferred	DIP23	3 Phase Open Source	250.0	65.0	-	1.05	yes
IRSM505-044PA	active and preferred	SOP23	3 Phase Open Source	250.0	65.0	-	1.05	yes

Product	Product Status	Package	Configuration	Voltage Class [V]	P_{mot} (10kHz) [W]	Rated Current [A]	$R_{DS\ (on)}$ (25C) max [Ω]	Built in NTC
CIPOS™ Micro								
IRSM505-084DA	active and preferred	DIP23	3 Phase Open Source	250.0	95.0	-	0.45	yes
IRSM505-084PA	active and preferred	SOP23	3 Phase Open Source	250.0	95.0	-	0.45	yes
IRSM515-024DA	active and preferred	DIP23	3 Phase Open Source	250.0	40.0	-	2.2	no
IRSM515-024PA	active and preferred	SOP23	3 Phase Open Source	250.0	40.0	-	2.2	no
IRSM515-044DA	active and preferred	DIP23	3 Phase Open Source	250.0	65.0	-	1.05	no
IRSM515-044PA	active and preferred	SOP23	3 Phase Open Source	250.0	65.0	-	1.05	no
IRSM515-084DA	active and preferred	DIP23	3 Phase Open Source	250.0	95.0	-	0.45	no
IRSM515-084PA	active and preferred	SOP23	3 Phase Open Source	250.0	95.0	-	0.45	no

Intelligent power modules

Product	Product Status	Package	Configuration	Voltage Class [V]	P_{mot} (10kHz) [W]	Rated Current [A]	$R_{DS\ (on)}$ (25C) max [Ω]	Built in NTC
CIPOS™ Mini								
IFCM20T65GD	active and preferred	MDIP-21 DCB	2 Phase Interleaved PFC	650.0	-	20.0	-	yes
IFCM30T65GD	active and preferred	MDIP-21 DCB	2 Phase Interleaved PFC	650.0	-	30.0	-	yes
IGCM04G60GA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter	600.0	600.0	4.0	-	yes
IGCM04G60HA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter	600.0	600.0	4.0	-	no
IGCM06G60GA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter	600.0	800.0	6.0	-	yes
IGCM06G60HA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter	600.0	800.0	6.0	-	no
IKCM15R60GD	active and preferred	MDIP-24 DCB	3 Phase Common Emitter	600.0	2200.0	15.0	-	yes
IKCM20R60GD	active and preferred	MDIP-24 DCB	3 Phase Common Emitter	600.0	2400.0	20.0	-	yes
IGCM04B60GA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter with Input Rectifier	600.0	600.0	4.0	-	yes
IGCM04B60HA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter with Input Rectifier	600.0	600.0	4.0	-	no
IGCM06B60GA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter with Input Rectifier	600.0	600.0	6.0	-	yes
IGCM06B60HA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter with Input Rectifier	600.0	600.0	6.0	-	no
IKCM10B60GA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter with Input Rectifier	600.0	800.0	10.0	-	yes
IKCM10B60HA	active and preferred	MDIP-24 Fullpack	3 Phase Common Emitter with Input Rectifier	600.0	800.0	10.0	-	no
IFCM20U65GD	active and preferred	MDIP-21 DCB	3 Phase Interleaved PFC	650.0	-	20.0	-	yes
IFCM30U65GD	active and preferred	MDIP-21 DCB	3 Phase Interleaved PFC	650.0	-	30.0	-	yes
IGCM04F60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	600.0	4.0	-	yes
IGCM04F60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	600.0	4.0	-	no
IGCM06F60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	800.0	6.0	-	yes
IGCM06F60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	800.0	6.0	-	no
IGCM10F60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1000.0	10.0	-	yes
IGCM10F60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1000.0	10.0	-	no
IGCM15F60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1200.0	15.0	-	yes
IGCM15F60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1200.0	15.0	-	no
IGCM20F60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1600.0	20.0	-	yes
IGCM20F60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1600.0	20.0	-	no

Product	Product Status	Package	Configuration	Voltage Class [V]	P_{mot} (10kHz) [W]	Rated Current [A]	$R_{DS\ (on)}$ (25C) max [Ω]	Built in NTC
CIPOS™ Mini								
IKCM10H60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1000.0	10.0	-	yes
IKCM10H60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1000.0	10.0	-	no
IKCM10L60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1200.0	10.0	-	yes
IKCM10L60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1200.0	10.0	-	no
IKCM15F60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1600.0	15.0	-	yes
IKCM15F60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1600.0	15.0	-	no
IKCM15H60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1200.0	15.0	-	yes
IKCM15H60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1200.0	15.0	-	no
IKCM15L60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1600.0	15.0	-	yes
IKCM15L60GD	active and preferred	MDIP-24 DCB	3 Phase Open Emitter	600.0	2200.0	15.0	-	yes
IKCM15L60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1600.0	15.0	-	no
IKCM15L60HD	active and preferred	MDIP-24 DCB	3 Phase Open Emitter	600.0	2200.0	15.0	-	no
IKCM20L60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1800.0	20.0	-	yes
IKCM20L60GD	active and preferred	MDIP-24 DCB	3 Phase Open Emitter	600.0	2400.0	20.0	-	yes
IKCM20L60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	1800.0	20.0	-	no
IKCM20L60HD	active and preferred	MDIP-24 DCB	3 Phase Open Emitter	600.0	2400.0	20.0	-	no
IKCM30F60GA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	2000.0	30.0	-	yes
IKCM30F60GD	active and preferred	MDIP-24 DCB	3 Phase Open Emitter	600.0	2600.0	30.0	-	yes
IKCM30F60HA	active and preferred	MDIP-24 Fullpack	3 Phase Open Emitter	600.0	2000.0	30.0	-	no
IKCM30F60HD	active and preferred	MDIP-24 DCB	3 Phase Open Emitter	600.0	2600.0	30.0	-	no

Intelligent power modules

Product	Product Status	Package	Configuration	Voltage Class [V]	P_{mot} (10kHz) [W]	Rated Current [A]	$R_{DS\ (on)}$ (25C) max [Ω]	Built in NTC
CIPOS™ Nano								
IRSM836-035MA	active and preferred	PQFN 12x12	3 Phase Common Source	500.0	70.0	-	2.2	no
IRSM836-035MB	active and preferred	PQFN 12x12	3 Phase Common Source	500.0	70.0	-	2.2	no
IRSM836-015MA	active and preferred	PQFN 12x12	3 Phase Open Source	500.0	50.0	-	6.0	no
IRSM836-025MA	active and preferred	PQFN 12x12	3 Phase Open Source	500.0	55.0	-	4.0	no
IRSM836-045MA	active and preferred	PQFN 12x12	3 Phase Open Source	500.0	80.0	-	1.7	no
IRSM836-024MA	active and preferred	PQFN 12x12	3 Phase Open Source	250.0	40.0	-	2.2	no
IRSM836-044MA	active and preferred	PQFN 12x12	3 Phase Open Source	250.0	60.0	-	1.05	no
IRSM836-084MA	active and preferred	PQFN 12x12	3 Phase Open Source	250.0	85.0	-	0.45	no
IRSM807-045MH	active and preferred	PQFN 8x9	Half-Bridge	500.0	130.0	-	1.7	no
IRSM807-105MH	active and preferred	PQFN 8x9	Half-Bridge	500.0	205.0	-	0.8	no
IRSM808-105MH	active and preferred	PQFN 8x9	Half-Bridge	500.0	205.0	-	0.8	no
IRSM808-204MH	active and preferred	PQFN 8x9	Half-Bridge	250.0	205.0	-	0.15	no
IRSM005-301MH	active and preferred	PQFN 7x8	Half-Bridge	100.0	165.0	-	0.02	no
IRSM005-800MH	active and preferred	PQFN 7x8	Half-Bridge	40.0	165.0	-	0.005	no

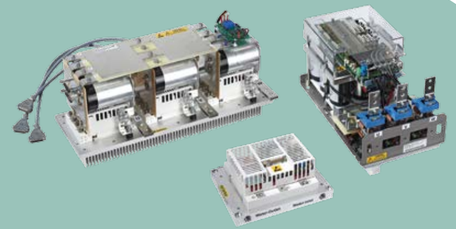
Product	Product Status	Package	Configuration	Voltage Class [V]	P_{mot} (10kHz) [W]	Rated Current [A]	$R_{DS\ (on)}$ (25C) max [Ω]	Built in NTC
IRAM								
IRAM136-0461G	active	SIP1	3 Phase Common Emitter with Input Rectifier	600.0	400.0	30.0	-	yes
IRAMX16UP60B	active	SIP2	3 Phase Common Emitter with Shunt	600.0	2000.0	30.0	-	yes
IRAMY20UP60B	active	SIP3	3 Phase Common Emitter with Shunt	600.0	2800.0	30.0	-	yes
IRAM136-3023B	active	SIP3	3 Phase Common Emitter with Shunt	150.0	1200.0	30.0	0.08	yes
IRAM136-0760A	active	SIP05	3 Phase Open Emitter	600.0	600.0	30.0	-	yes
IRAMX16UP60A	active	SIP2	3 Phase Open Emitter	600.0	2000.0	30.0	-	yes
IRAMX20UP60A	active	SIP2	3 Phase Open Emitter	600.0	2600.0	30.0	-	yes
IRAMX30TP60A	active	SIP2	3 Phase Open Emitter	600.0	2600.0	30.0	-	yes
IRAM630-1562F	active	SIP2A Gen1	3 Phase Open Emitter with PFC	600.0	1400.0	15.0	-	yes

Stacks & Boards

IGBT stacks and avaluation boards

Our reliable and highest quality stacks and assemblies offer optimized thermal management. These advanced systems provide design support and help to optimize system costs.

Set up laboratory experiments or a first prototype with Evaluation boards and Kits designed in several configurations to drive IGBT modules, discrete IGBTs and MOSFETs. Please find optimized solutions with tailormade transformers or high voltage gate driver ICs with either integrated coreless transformer or even SOI level shift technology.



Stacks

Product	Product Status	Rated AC Current (A_{RMS})	Rated AC Voltage (V_{RMS})	Rated f_{SW} (kHz)	Configuration	Cooling	Housing	Features	Implemented IGBT Modules
IGBT4 1700V - ModSTACK™ HD									
6MS30017E43W34404	active and preferred	2050.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ HD 3	incl. Capacitors	FF1000R17IE4
6MS30017E43W38169	active and preferred	1800.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ HD 3	incl. Capacitors	FF1000R17IE4
6MS30017E43W40372	active and preferred	1800.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ HD 3	incl. Capacitors	FF1000R17IE4
6MS20017E43W37032	active and preferred	1200.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ HD 3	incl. Capacitors	FF1000R17IE4
6MS20017E43W38170	active and preferred	1200.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ HD 3	incl. Capacitors	FF1000R17IE4
6MS10017E41W36460	active and preferred	600.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ HD 1	incl. Capacitors	FF1000R17IE4
IGBT4 1700V - ModSTACK™ C									
2LS20017E42W36702	active and preferred	1520.0	690.0	2.0	2-pack	Liquid cooled	ModSTACK™ C	-	FF1000R17IE4
IGBT4 1700V - ModSTACK™ 3									
6MS24017P43W39872	active and preferred	1050.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ 3	incl. Capacitors	FF1200R17KP4_B2
6MS24017P43W39873	active and preferred	1050.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ 3	incl. Capacitors	FF1200R17KP4_B2
6MS16017P43W40383	active and preferred	880.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ 3	incl. Capacitors	FF800R17KP4_B2
6MS16017P43W40382	active and preferred	880.0	690.0	3.0	6-pack	Liquid cooled	ModSTACK™ 3	incl. Capacitors	FF800R17KP4_B2
IGBT4 1700V - PrimeSTACK™									
2PS12017E44G35911	active and preferred	460.0	690.0	3.0	2-pack	Air cooled	PrimeSTACK™ C4	incl. Capacitors	FF300R17KE4

Product	Product Status	Rated AC Current (A_{RMS})	Rated AC Voltage (V_{RMS})	Rated f_{SW} (kHz)	Configuration	Cooling	Housing	Features	Implemented IGBT Modules
IGBT4 1200V - PrimeSTACK™									
2PS13512E43W39689	active and preferred	900.0	400.0	5.0	2-pack	Liquid cooled	PrimeSTACK™ C3	-	FF450R12KE4
2PS13512E43W35222	active and preferred	900.0	400.0	5.0	2-pack	Liquid cooled	PrimeSTACK™ C3	-	FF450R12KE4
6PS18012E4FG38393	active and preferred	800.0	400.0	3.0	6-pack	Air cooled	PrimeSTACK™ CF / 3 x C4	incl. Capacitors	FF450R12KE4
2PS18012E44G38553	active and preferred	770.0	400.0	3.0	2-pack	Air cooled	PrimeSTACK™ C4	incl. Capacitors	FF450R12KE4
2PS18012E44G40113	active and preferred	770.0	400.0	3.0	2-pack	Air cooled	PrimeSTACK™ C4	-	FF450R12KE4
6PS18012E4FG35689	active and preferred	729.0	400.0	5.0	6-pack	Air cooled	PrimeSTACK™ CF / 3 x C4	incl. Capacitors	FF450R12KE4
6PS04012E4DG36022	active	306.0	400.0	5.0	6-pack	Air cooled	PrimeSTACK™ CD	incl. Capacitors	FF200R12KE4
6PS04512E43W39693	active and preferred	300.0	500.0	2.5	6-pack	Liquid cooled	PrimeSTACK™ C3	-	FF450R12KE4
6PS04512E43G37986	active and preferred	265.0	400.0	5.0	6-pack	Air cooled	PrimeSTACK™ C3	incl. Capacitors	FF450R12KE4
IGBT3 1700V - ModSTACK™ 3									
6MS24017E33W32859	active and preferred	800.0	400.0	2.5	6-pack	Air cooled	ModSTACK™ 3	incl. Capacitors	FF1200R17KE3_B2
6MS24017E33W32860	active and preferred	800.0	400.0	2.5	6-pack	Air cooled	ModSTACK™ 3	incl. Capacitors	FF1200R17KE3_B2
IGBT3 1700V - PrimeSTACK™									
2PS12017E34W32132	active	1070.0	690.0	2.0	2-pack	Liquid cooled	PrimeSTACK™ C4	-	FF300R17KE3
2PS06017E32G28213	active	325.0	690.0	2.0	2-pack	Air cooled	PrimeSTACK™ C2	-	FF300R17KE3
IGBT3 1200V - PrimeSTACK™									
6PS03012E33G34160	active	234.0	300.0	5.0	6-pack	Air cooled	PrimeSTACK™ C3	incl. Capacitors	FF300R12KE3

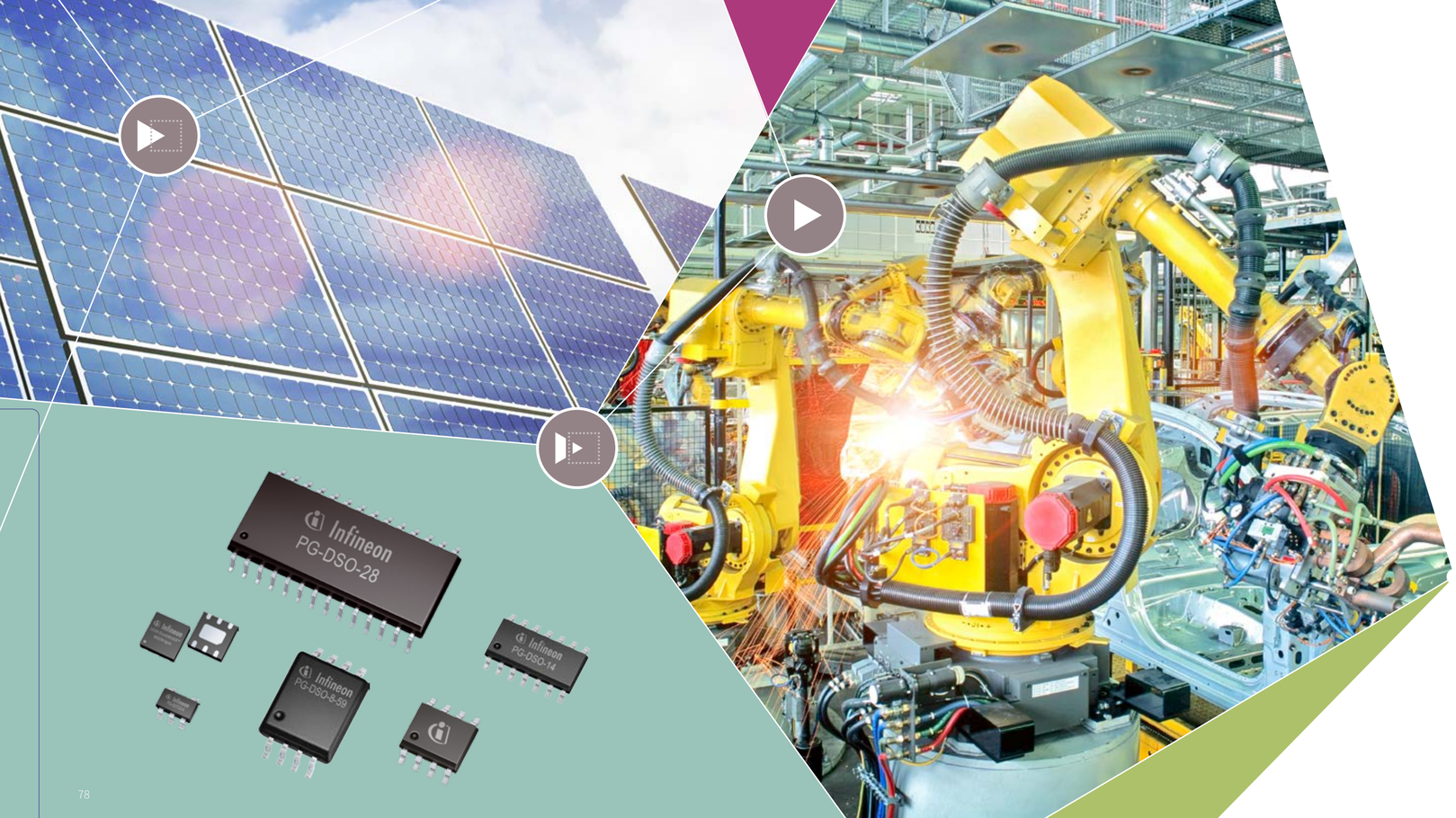
Boards

Product	Product Status	Promotion of	Description
Evaluation Boards for industrial IGBT modules			
2ED100E12-F2	on request	EconoDUAL™ 3	Evaluation Board for EconoDUAL™3 Modules (1200V)
2ED250E12-F	on request	PrimePACK™	Evaluation Driver Board for PrimePACK™ Modules (1200V)
6ED100E12-F2	on request	EconoPACK™+	Evaluation Board for EconoPACK™+ Modules (1200V)
7ED020E12-FI-U1	on request	SmartPIM 1	Evaluation Board for SmartPIM 1 Modules (1200V)
7ED020E12-FI-W2	on request	EasyPIM™ 2B	Evaluation Board for EasyPIM™ 2B PressFIT Modules (1200V)
F3L020E07-F-P	on request	EconoPACK™ 4 3-level	Evaluation Driver Board for EconoPACK™ 4 3-Level Modules in NPC1-Topology (650V)
F3L030E07-F-W2	on request	EasyPACK 2B 3-level	Evaluation Board for EasyPACK 2B 3-level in NPC-Topology (650V)
F3L2020E07-F-P	on request	EconoPACK™ 4 3-level	Evaluation Driver Board for EconoPACK™ 4 3-Level Modules in NPC2-Topology (650V)
F3L2020E12-F-P_EVAL	on request	EconoPACK™ 4 3-level	Evaluation Driver Board for EconoPACK™ 4 3-Level Modules in NPC2-Topology (1200V)
MA040E12	on request	MIPAQ™ serve	Isolated gate driver power supply and logic interface for MIPAQ™ serve (1200V)
MA070E12	on request	62mm Modules	Evaluation Adapter Board for 62mm Modules (1200V)
MA070E17	on request	62mm Modules	Evaluation Adapter Board for 62mm Modules (1700V)
MA200E17	on request	EconoDUAL™ 3	Evaluation Adapter Board for EconoDUAL™3 Modules (1700V)
MA300E12	on request	PrimePACK™	Evaluation Adapter Board for PrimePACK™ Modules (1200V)
MA3AE12	on request	MIPAQ™ base	Isolating amplifier for current measurement with MIPAQ™ base (1200V)
MA200E12	on request	EconoDUAL™ 3	Evaluation Adapter Board for EconoDUAL™3 Modules (1200V)
MA300E17	on request	PrimePACK™	Evaluation Adapter Board for PrimePACK™ Modules (1700V)
MA3L080E07	on request	EconoPACK™ 4 3-level	Evaluation Adapter Board for EconoPACK™ 4 3-Level Modules in NPC1-Topology (650V)
MA3L120E07	on request	EconoPACK™ 4 3-level	Evaluation Adapter Board for EconoPACK™ 4 3-Level Modules in NPC2-Topology (650V)
MA3L120E12_EVAL	on request	EconoPACK™ 4 3-level	Evaluation Board for EconoPACK™ 4 3-Level Modules in NPC2-Topology (1200V)
MA400E12	on request	IHM (130mm x 140mm)	Evaluation Adapter Board for IHM IGBT Modules (1200V)
MA400E17	on request	IHM (130mm x 140mm)	Evaluation Adapter Board for IHM IGBT Modules (1700V)
MA401E12	on request	IHM (140mm x 190mm)	Evaluation Adapter Board for IHM IGBT Modules (1200V)
MA401E17	on request	IHM (140mm x 190mm)	Evaluation Adapter Board for IHM IGBT Modules (1700V)

Product	Product Status	Promotion of	Description
Evaluation Boards for industrial Driver ICs and Boards (EiceDRIVER™)			
2ED300E17-SFO	on request	EiceDRIVER™ Safe	Evaluation Board for 2ED300C17-S EiceDRIVER™ Safe Driver Boards (1700V)
EVAL-1ED020I12-B2	active and preferred	EiceDRIVER™ Enhanced	Evaluation Board for 1ED020I12-B2 EiceDRIVER™ Enhanced Driver ICs (1200V)
EVAL-1ED020I12-BT	active and preferred	EiceDRIVER™ Enhanced	Evaluation Board for 1ED020I12-BT EiceDRIVER™ Enhanced Driver ICs (1200V)
EVAL-2ED020I12-F2	active and preferred	EiceDRIVER™ Enhanced	Evaluation Board for 2ED020I12-F2 EiceDRIVER™ Enhanced Driver ICs (600V/1200V)
EVAL-1EDI60I12AF	active and preferred	EiceDRIVER™ Compact	Evaluation Board for 1EDI60I12AF EiceDRIVER™ Compact Driver ICs (1200V)
EVAL-2EDL23N06PJ	active and preferred	EiceDRIVER™ Compact	Evaluation Board for 2EDL23N06PJ EiceDRIVER™ Compact Driver ICs (600V)
EVAL-2EDL23I06PJ	active and preferred	EiceDRIVER™ Compact	Evaluation Board for 2EDL23I06PJ EiceDRIVER™ Compact Driver ICs (600V)
EVAL-2EDL05I06PF	active and preferred	EiceDRIVER™ Compact	Evaluation Board for 2EDL05I06PF EiceDRIVER™ Compact Driver ICs (600V)
EVAL-6EDL04N02PR	active and preferred	EiceDRIVER™ Compact	Evaluation Board for 6EDL04N02PR EiceDRIVER™ Compact Driver ICs (200V)
EVAL-6EDL04I06PT	active and preferred	EiceDRIVER™ Compact	Evaluation Board for 6EDL04I06PT EiceDRIVER™ Compact Driver ICs (600V)
Reference boards for IPMs (CIPOS™ Nano)			
IRMD808	active	CIPOS™ Nano	Motor Drive for power applications featuring IRSM808
IRMD836	active	CIPOS™ Nano	Motor Drive for power applications featuring IRSM836
Evaluation boards for Discrete IGBTs			
EVAL-IGBT-650V-TO247-4	active and preferred	TRENCHSTOP™ 5 in TO-247 4pin	For evaluation of IGBT performance during switching events, as for instance double pulse test, and in particular a fair comparison between TO-247 3pin and TO-247 4pin packages
Reference design kits for discrete IGBTs			
IRMDG62-1-D2	active	IRGS4610D	Reference design power board designed to showcase IR D2PAK IRGS4610DPBF IGBT in a motor drive application.
iMOTION™ Modular Application Design Kit (MADK) evaluation platform - power boards			
EVAL-M1-05F310	on request	CIPOS™ Nano	This evaluation board is a complete power stage, powered by IRSM005-310MH. The board is purposed to drive 3-phase motors in low voltage domain. It is equipped with MADK™ M1 20 pin interface connector.
EVAL-M1-05F804	on request	CIPOS™ Nano	This evaluation board is a complete power stage, powered by IRSM005-800MH. The board is purposed to drive 3-phase motors in low voltage domain. It is equipped with MADK™ M1 20 pin interface connector.
EVAL-M1-36-84A	on request	CIPOS™ Nano	This evaluation board is a complete power stage to drive 3-phase motor, powered by IRSM836-084MA CIPOS™ Nano
EVAL-M1-36-45A	on request	CIPOS™ Nano	This evaluation board is a complete power stage to drive 3-phase motor, powered by IRSM836-045A CIPOS™ Nano
EVAL-M1-05-84D	on request	CIPOS™ Micro	This evaluation board is a complete power stage to drive 3-phase motor, powered by IRSM505-084DA2 CIPOS™ Micro
EVAL-M1-05-65D	on request	CIPOS™ Micro	This evaluation board is a complete power stage to drive 3-phase motor, powered by IRSM505-065DA2 CIPOS™ Micro

Boards

Product	Product Status	Promotion of	Description
iMOTION™ Modular Application Design Kit (MADK) evaluation platform - control boards			
EVAL-M1-099M	on request	iMOTION™ Motor Control IC	High performance control board with IRMCK099 iMOTION™ Motor Control IC
EVAL-M1-1302	on request	ARM® Cortex® -M0 Microcon-troller	High Performance Sensorless Motor Control Card with XMC 1302 ARM® Cortex® -M0 Microcontroller
iMOTION™ Modular Application Design Kit (MADK) evaluation platform - kits			
EVAL-M1-1302_05-65D	on request	Eval-M1-1302, Eval-M1-05-65D	Compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by IRSM505-065DA2 CIPOS™ Micro and XMC 1302
EVAL-M1-1302_36-84A	on request	Eval-M1-1302, Eval-M1-36-84A	Compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by IRSM836-084A CIPOS™ Nano and XMC 1302.
EVAL-M1-1302_05-84D	on request	Eval-M1-1302, Eval-M1-05-84D	Compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by IRSM505-084DA2 CIPOS™ Micro and XMC 1302
EVAL-M1-1302_36-45A	on request	Eval-M1-1302, Eval-M1-36-45A	Compact and flexible 3-phase motor drive system solution platform with control card and power stage, powered by IRSM836-045A CIPOS™ Nano and XMC 1302.



Gate Driver ICs

Leveraging the application expertise and advanced technologies of Infineon and International Rectifier, the gate driver ICs are well suited for many application such as automotive, major home appliances, industrial motor drives, solar inverters, UPS, switched-mode power supplies, and high-voltage lighting.

Infineon offers a comprehensive portfolio with a variety of configurations, voltage classes, isolation levels, protection features, and package options. These flexible gate driver ICs are complementary to Infineon IGBTs, silicon and silicon carbide MOSFETs (e.g. CoolMOS™ and CoolSiC™), or as part of integrated power modules. Every switch needs a driver.

Galvanic Isolated Gate Driver ICs

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Sink) [A]	Typ. Output Current (Source) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]	Switching Frequency max [kHz]
Single High Side										
1EDI60H12AH	active and preferred	PG-DSO-8	1200.0	1.0	9.4	10.0	IGBT	120.0	142.0	1000.0
1EDI60I12AF	active and preferred	PG-DSO-8	1200.0	1.0	9.4	10.0	IGBT	300.0	330.0	1000.0
1EDI60I12AH	active and preferred	PG-DSO-8	1200.0	1.0	9.4	10.0	IGBT	300.0	330.0	1000.0
1EDI60N12AF	active and preferred	PG-DSO-8	1200.0	1.0	9.4	10.0	MOS	120.0	142.0	1000.0
1EDI40I12AF	active and preferred	PG-DSO-8	1200.0	1.0	6.8	7.5	IGBT	330.0	330.0	1000.0
1EDI40I12AH	active and preferred	PG-DSO-8	1200.0	1.0	6.8	7.5	IGBT	300.0	330.0	1000.0
1EDI30I12MF	active and preferred	PG-DSO-8	1200.0	1.0	6.2	5.9	IGBT	300.0	330.0	1000.0
1EDI30I12MH	active and preferred	PG-DSO-8	1200.0	1.0	4.5	5.2	IGBT	300.0	330.0	1000.0
1EDI20I12MF	active and preferred	PG-DSO-8	1200.0	1.0	4.1	4.4	IGBT	300.0	330.0	1000.0
1EDI30J12CP	active and preferred	PG-DSO-19	1200.0	1.0	4.0	4.0	JFET	80.0	106.0	2000.0
1EDI20H12AH	active and preferred	PG-DSO-8	1200.0	1.0	3.5	4.0	IGBT	120.0	142.0	1000.0
1EDI20I12AF	active and preferred	PG-DSO-8	1200.0	1.0	3.5	4.0	IGBT	300.0	330.0	1000.0
1EDI20I12AH	active and preferred	PG-DSO-8	1200.0	1.0	3.5	4.0	IGBT	300.0	330.0	1000.0
1EDI20N12AF	active and preferred	PG-DSO-8	1200.0	1.0	3.5	4.0	MOS	115.0	137.0	1000.0
1EDI20I12MH	active and preferred	PG-DSO-8	1200.0	1.0	3.2	3.5	IGBT	300.0	330.0	1000.0
1EDI10I12MF	active and preferred	PG-DSO-8	1200.0	1.0	2.2	2.2	IGBT	330.0	330.0	1000.0
1ED020I12-B2	active and preferred	PG-DSO-16	1200.0	1.0	2.0	2.0	IGBT	170.0	195.0	100.0
1ED020I12-BT	active and preferred	PG-DSO-16	1200.0	1.0	2.0	2.0	IGBT	1750.0	2000.0	100.0
1ED020I12-F2	active and preferred	PG-DSO-16	1200.0	1.0	2.0	2.0	IGBT	170.0	195.0	100.0
1ED020I12-FT	active and preferred	PG-DSO-16	1200.0	1.0	2.0	2.0	IGBT	1750.0	2000.0	100.0
1EDI10I12MH	active and preferred	PG-DSO-8	1200.0	1.0	1.7	1.9	IGBT	300.0	330.0	1000.0
1EDI05I12AF	active and preferred	PG-DSO-8	1200.0	1.0	0.9	1.3	IGBT	300.0	330.0	1000.0
1EDI05I12AH	active and preferred	PG-DSO-8	1200.0	1.0	0.9	1.3	IGBT	300.0	330.0	1000.0

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Sink) [A]	Typ. Output Current (Source) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]	Switching Frequency max [kHz]
Dual High Side										
2ED020I12-F2	active and preferred	PG-DSO-36	1200.0	2.0	2.0	2.0	IGBT	170.0	195.0	100.0
Half Bridge										
2ED300C17-S	active and preferred	AG-EICE-45	1700.0	2.0	-	-	IGBT	-	-	-
2ED300C17-ST	active and preferred	AG-EICE-45	1700.0	2.0	-	-	IGBT	-	-	-
2ED020I12-FI	active and preferred	PG-DSO-18	1200.0	2.0	2.5	1.5	IGBT/MOS	85.0	105.0	200.0
2ED020I06-FI	active and preferred	PG-DSO-18	650.0	2.0	2.5	1.5	IGBT/MOS	85.0	105.0	200.0

Non-Isolated Gate Driver IC

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
Dual Low Side									
IR25600	active	PDIP8	25.0	2.0	2.3	3.3	IGBT / MOS	85.0	160.0
IR25600S	active	SOIC 8N	25.0	2.0	2.3	3.3	IGBT / MOS	85.0	160.0
IR4426	active	PDIP8	25.0	2.0	2.3	3.3	IGBT / MOS	85.0	160.0
IR4426S	active	SOIC 8N	25.0	2.0	2.3	3.3	IGBT / MOS	85.0	160.0
IR4427	active	PDIP8	25.0	2.0	2.3	3.3	IGBT / MOS	85.0	160.0
IR4427S	active	SOIC 8N	25.0	2.0	2.3	3.3	IGBT / MOS	85.0	160.0
IRS4427	active and preferred	PDIP8	25.0	2.0	2.3	3.3	IGBT / MOS	50.0	95.0
IRS4427S	active and preferred	SOIC 8N	25.0	2.0	2.3	3.3	IGBT / MOS	50.0	95.0
IRS4428S	active	SOIC 8N	25.0	2.0	2.3	3.3	IGBT / MOS	50.0	95.0
IRS4426S	active and preferred	SOIC 8N	25.0	2.0	2.3	3.3	IGBT / MOS	50.0	95.0
IRS44262S	active and preferred	SOIC 8N	25.0	2.0	2.3	3.3	IGBT / MOS	50.0	95.0
Half Bridge									
IR25601S	active	SOIC 8N	600.0	2.0	0.078	0.169	IGBT / MOS	220.0	320.0
Single Low Side									
IR2121	active and preferred	PDIP8	5.0	1.0	1.6	3.3	IGBT / MOS	125.0	200.0
IRS44273L	active and preferred	SOT23	25.0	1.0	10.5	10.5	IGBT / MOS	50.0	95.0
IR44272L	active and preferred	SOT23	25.0	1.0	1.7	10.5	IGBT / MOS	50.0	-
IR44273L	active and preferred	SOT23	25.0	1.0	1.7	10.5	IGBT / MOS	50.0	-
IR44252L	active and preferred	SOT23	25.0	1.0	0.3	0.55	IGBT / MOS	50.0	-

Level Shift Gate Drivers

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
Half Bridge									
IR2214SS	active and preferred	SSOP24	1200.0	2.0	2.0	3.0	IGBT / MOS	440.0	660.0
IR7184S	active and preferred	SOIC 8N	700.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IR7304S	active and preferred	SOIC 8N	700.0	2.0	0.078	0.169	IGBT / MOS	220.0	320.0
2EDL23I06PJ	active and preferred	PG-DSO-14	600.0	2.0	2.3	2.8	IGBT / MOS	420.0	610.0
2EDL23N06PJ	active and preferred	PG-DSO-14	600.0	2.0	2.3	2.8	IGBT / MOS	310.0	460.0
IR2114SS		SSOP24	600.0	2.0	2.0	3.0	IGBT / MOS	440.0	660.0
IR2183	active	PDIP8	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IR21834	active	PDIP14	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IR21834S	active	SOIC 14N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IR2183S	active	SOIC 8N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IR2184	active	PDIP8	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IR21844	active	PDIP14	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IR21844S	active	SOIC 14N	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IR2184S	active	SOIC 8N	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IRS2183	active and preferred	PDIP8	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS21834	active and preferred	PDIP14	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS21834S	active and preferred	SOIC 14N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS2183S	active and preferred	SOIC 8N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS2184	active and preferred	PDIP8	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IRS21844	active and preferred	PDIP14	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IRS21844M	active and preferred	MLPQ 4X4 14L	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IRS21844S	active and preferred	SOIC 14N	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
IRS2184S	active and preferred	SOIC 8N	600.0	2.0	1.9	2.3	IGBT / MOS	680.0	900.0
2EDL05I06PF	active and preferred	PG-DSO-8	600.0	2.0	0.36	0.7	IGBT / MOS	420.0	610.0
2EDL05I06PJ	active and preferred	PG-DSO-14	600.0	2.0	0.36	0.7	IGBT / MOS	420.0	610.0
2EDL05N06PF	active and preferred	PG-DSO-8	600.0	2.0	0.36	0.7	IGBT / MOS	310.0	460.0
2EDL05N06PJ	active and preferred	PG-DSO-14	600.0	2.0	0.36	0.7	IGBT / MOS	310.0	460.0
IRS2103	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	680.0	820.0

Level Shift Gate Drivers

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
Half Bridge									
IRS2103S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	680.0	820.0
IRS2104	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	680.0	820.0
IRS2104S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	680.0	820.0
IRS2108	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS21084	active and preferred	PDIP14	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS21084S	active and preferred	SOIC 14N	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS2108S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS2109	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS21091	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS21091S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS21094	active and preferred	PDIP14	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS21094S	active and preferred	SOIC 14N	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS2109S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS2111	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS2111S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	750.0	950.0
IRS2304	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	150.0	210.0
IRS2304S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	150.0	210.0
IRS2308	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS2308S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IR2111	active	PDIP8	600.0	2.0	0.25	0.5	IGBT / MOS	750.0	950.0
IR2111S	active	SOIC 8N	600.0	2.0	0.25	0.5	IGBT / MOS	750.0	950.0
IRS2890DS	active and preferred	SOIC 14N	600.0	2.0	0.22	0.48	IGBT / MOS	500.0	650.0
IR2103	active	PDIP8	600.0	2.0	0.21	0.36	IGBT / MOS	680.0	820.0
IR2103S	active	SOIC 8N	600.0	2.0	0.21	0.36	IGBT / MOS	680.0	820.0
IR2104	active	PDIP8	600.0	2.0	0.21	0.36	IGBT / MOS	680.0	820.0
IR2104S	active	SOIC 8N	600.0	2.0	0.21	0.36	IGBT / MOS	680.0	820.0
IR25602S	active	SOIC 8N	600.0	2.0	0.21	0.36	IGBT / MOS	680.0	820.0
IR2108	active	PDIP8	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
Half Bridge									
IR21084	active	PDIP14	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR21084S	active	SOIC 14N	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR2108S	active	SOIC 8N	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR2109	active	PDIP8	600.0	2.0	0.2	0.35	IGBT / MOS	750.0	950.0
IR21091	active	PDIP8	600.0	2.0	0.2	0.35	IGBT / MOS	750.0	950.0
IR21091S	active	SOIC 8N	600.0	2.0	0.2	0.35	IGBT / MOS	750.0	950.0
IR21094	active	PDIP14	600.0	2.0	0.2	0.35	IGBT / MOS	750.0	950.0
IR21094S	active	SOIC 14N	600.0	2.0	0.2	0.35	IGBT / MOS	750.0	950.0
IR2109S	active	SOIC 8N	600.0	2.0	0.2	0.35	IGBT / MOS	750.0	950.0
IR2302	active	PDIP8	600.0	2.0	0.2	0.35	MOS	750.0	950.0
IR2302S	active	SOIC 8N	600.0	2.0	0.2	0.35	MOS	750.0	950.0
IR2308	active	PDIP8	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR2308S	active	SOIC 8N	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IRS2302S	active	SOIC 8N	600.0	2.0	0.2	0.35	MOS	650.0	850.0
IR25606S	active	SOIC 8N	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR21531D	active and preferred	PDIP8	600.0	2.0	0.18	0.26	IGBT / MOS	-	-
IR25603S	active	SOIC 8N	600.0	2.0	0.18	0.26	IGBT / MOS	-	-
IRS21531D	active and preferred	PDIP8	600.0	2.0	0.18	0.26	IGBT / MOS	-	-
IRS21531DS	active and preferred	SOIC 8N	600.0	2.0	0.18	0.26	IGBT / MOS	-	-
IRS2153D	active and preferred	PDIP8	600.0	2.0	0.18	0.26	IGBT / MOS	-	-
IRS2153DS	active and preferred	SOIC 8N	600.0	2.0	0.18	0.26	IGBT / MOS	-	-
IR2304	active	PDIP8	600.0	2.0	0.078	0.169	IGBT / MOS	220.0	320.0
IR2304S	active	SOIC 8N	600.0	2.0	0.078	0.169	IGBT / MOS	220.0	320.0
IRS2003	active	PDIP8	200.0	2.0	0.29	0.6	MOS	680.0	820.0
IRS2003S	active	SOIC 8N	200.0	2.0	0.29	0.6	MOS	680.0	820.0
IRS2004	active	PDIP8	200.0	2.0	0.29	0.6	MOS	680.0	820.0
IRS2004S	active	SOIC 8N	200.0	2.0	0.29	0.6	MOS	680.0	820.0
IRS2008S	active and preferred	SOIC 8N	200.0	2.0	0.29	0.6	MOS	680.0	870.0

Level Shift Gate Drivers

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
High Side and Low Side									
IR2213	active and preferred	PDIP14	1200.0	2.0	2.0	2.5	IGBT / MOS	280.0	-
IR2213S	active and preferred	SOIC 16W	1200.0	2.0	2.0	2.5	IGBT / MOS	280.0	-
IR7106S	active and preferred	SOIC 8N	700.0	2.0	0.22	0.35	IGBT / MOS	220.0	300.0
IRS2186	active and preferred	PDIP8	600.0	2.0	4.0	4.0	IGBT / MOS	170.0	250.0
IRS21864	active and preferred	PDIP14	600.0	2.0	4.0	4.0	IGBT / MOS	170.0	250.0
IRS21864S	active and preferred	SOIC 14N	600.0	2.0	4.0	4.0	IGBT / MOS	170.0	250.0
IRS21867S	active and preferred	SOIC 8N	600.0	2.0	4.0	4.0	MOS	170.0	250.0
IRS2186S	active and preferred	SOIC 8N	600.0	2.0	4.0	4.0	IGBT / MOS	170.0	250.0
IR2113	active	SOIC 16W / PDIP14	600.0	2.0	2.5	2.5	IGBT / MOS	120.0	150.0
IR2113S	active	SOIC 16W	600.0	2.0	2.5	2.5	IGBT / MOS	120.0	150.0
IR25607S	active	SOIC 16W	600.0	2.0	2.5	2.5	IGBT / MOS	120.0	150.0
IRS2113	active and preferred	PDIP14	600.0	2.0	2.5	2.5	IGBT / MOS	130.0	160.0
IRS2113M	active and preferred	MLPQ 4X4 14L	600.0	2.0	2.5	2.5	IGBT / MOS	130.0	160.0
IRS2113S	active and preferred	SOIC 16W	600.0	2.0	2.5	2.5	IGBT / MOS	130.0	160.0
IR2181	active	PDIP8	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IR21814	active	PDIP14	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IR21814S	active	SOIC 14N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IR2181S	active	SOIC 8N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS2181	active and preferred	PDIP8	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS21814	active and preferred	PDIP14	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS21814M	active and preferred	MLPQ 4X4 14L	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS21814S	active and preferred	SOIC 14N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
IRS2181S	active and preferred	SOIC 8N	600.0	2.0	1.9	2.3	IGBT / MOS	180.0	270.0
2EDL05I06BF	active and preferred	PG-DSO-8	600.0	2.0	0.36	0.7	IGBT	420.0	610.0
IRS2101	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	160.0	220.0
IRS2101S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	160.0	220.0
IRS2106	active and preferred	PDIP8	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS21064	active and preferred	PDIP14	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS21064S	active and preferred	SOIC 14N	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
High Side and Low Side									
IRS2106S	active and preferred	SOIC 8N	600.0	2.0	0.29	0.6	IGBT / MOS	220.0	300.0
IRS2112	active and preferred	PDIP14	600.0	2.0	0.29	0.6	IGBT / MOS	135.0	180.0
IRS2112S	active and preferred	SOIC 16W	600.0	2.0	0.29	0.6	IGBT / MOS	135.0	180.0
IR2112	active	PDIP14	600.0	2.0	0.25	0.5	IGBT / MOS	125.0	180.0
IR2112S	active	SOIC 16W	600.0	2.0	0.25	0.5	IGBT / MOS	125.0	180.0
IR2101	active	PDIP8	600.0	2.0	0.21	0.36	IGBT / MOS	160.0	220.0
IR2101S	active	SOIC 8N	600.0	2.0	0.21	0.36	IGBT / MOS	160.0	220.0
IR2102	active and preferred	PDIP8	600.0	2.0	0.21	0.36	IGBT / MOS	160.0	220.0
IR2102S	active and preferred	SOIC 8N	600.0	2.0	0.21	0.36	IGBT / MOS	160.0	220.0
IR2106	active	PDIP8	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR21064	active	PDIP14	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR21064S	active	SOIC 14N	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR2106S	active	SOIC 8N	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IR2301	active	PDIP8	600.0	2.0	0.2	0.35	MOS	220.0	300.0
IR2301S	active	SOIC 8N	600.0	2.0	0.2	0.35	MOS	220.0	300.0
IR25604S	active	SOIC 8N	600.0	2.0	0.2	0.35	IGBT / MOS	220.0	300.0
IRS2301S	active and preferred	SOIC 8N	600.0	2.0	0.2	0.35	MOS	220.0	300.0
IR2110	active	PDIP14	500.0	2.0	2.5	2.5	IGBT / MOS	120.0	150.0
IR2110S	active	SOIC 16W	500.0	2.0	2.5	2.5	IGBT / MOS	120.0	150.0
IRS2110	active and preferred	PDIP14	500.0	2.0	2.5	2.5	IGBT / MOS	130.0	160.0
IRS2110S	active and preferred	SOIC 16W	500.0	2.0	2.5	2.5	IGBT / MOS	130.0	160.0
IR2010	active and preferred	PDIP14	200.0	2.0	3.0	3.0	IGBT / MOS	95.0	130.0
IR2010S	active and preferred	SOIC 16W	200.0	2.0	3.0	3.0	IGBT / MOS	95.0	130.0
IR2011	active	PDIP8	200.0	2.0	1.0	1.0	IGBT / MOS	80.0	-
IR2011S	active	SOIC 8N	200.0	2.0	1.0	1.0	IGBT / MOS	80.0	-
IRS2011	active and preferred	PDIP8	200.0	2.0	1.0	1.0	IGBT / MOS	60.0	80.0
IRS2011S	active and preferred	SOIC 8N	200.0	2.0	1.0	1.0	IGBT / MOS	60.0	80.0
IRS2005M	active and preferred	MLPQ 4X4 14L	200.0	2.0	0.29	0.6	MOS	160.0	220.0
IRS2005S	active and preferred	SOIC 8N	200.0	2.0	0.29	0.6	MOS	160.0	220.0

Level Shift Gate Drivers

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
Single High Side									
IRS2117	active and preferred	PDIP8	600.0	1.0	0.29	0.6	IGBT / MOS	125.0	200.0
IRS2117S	active and preferred	SOIC 8N	600.0	1.0	0.29	0.6	IGBT / MOS	125.0	200.0
IRS2118	active and preferred	PDIP8	600.0	1.0	0.29	0.6	IGBT / MOS	125.0	200.0
IRS2118S	active and preferred	SOIC 8N	600.0	1.0	0.29	0.6	IGBT / MOS	125.0	200.0
IRS2127	active and preferred	PDIP8	600.0	1.0	0.29	0.6	IGBT / MOS	150.0	200.0
IRS21271	active and preferred	PDIP8	600.0	1.0	0.29	0.6	IGBT / MOS	150.0	200.0
IRS21271S	active and preferred	SOIC 8N	600.0	1.0	0.29	0.6	IGBT / MOS	150.0	200.0
IRS2127S	active and preferred	SOIC 8N	600.0	1.0	0.29	0.6	IGBT / MOS	150.0	200.0
IR2117	active	PDIP8	600.0	1.0	0.25	0.5	IGBT / MOS	125.0	200.0
IR2117S	active	SOIC 8N	600.0	1.0	0.25	0.5	IGBT / MOS	125.0	200.0
IR2118	active	PDIP8	600.0	1.0	0.25	0.5	IGBT / MOS	125.0	200.0
IR2118S	active	SOIC 8N	600.0	1.0	0.25	0.5	IGBT / MOS	125.0	200.0
IR2127	active	PDIP8	600.0	1.0	0.25	0.5	IGBT / MOS	200.0	250.0
IR21271	active	PDIP8	600.0	1.0	0.25	0.5	IGBT / MOS	200.0	250.0
IR21271S	active	SOIC 8N	600.0	1.0	0.25	0.5	IGBT / MOS	200.0	250.0
IR2127S	active	SOIC 8N	600.0	1.0	0.25	0.5	IGBT / MOS	200.0	250.0
IR2128	active	PDIP8	600.0	1.0	0.25	0.5	IGBT / MOS	200.0	250.0
IR2128S	active	SOIC 8N	600.0	1.0	0.25	0.5	IGBT / MOS	200.0	250.0
IRS25752L	active and preferred	SOT23	600.0	1.0	0.16	0.24	IGBT / MOS	140.0	200.0
IR2125	active and preferred	PDIP8	500.0	1.0	1.6	3.3	IGBT / MOS	170.0	240.0
IR2125S	active and preferred	SOIC 16W	500.0	1.0	1.6	3.3	IGBT / MOS	170.0	240.0
IRS20752L	active and preferred	SOT23	200.0	1.0	0.16	0.24	IGBT / MOS	140.0	-
IRS10752L	active and preferred	SOT23	100.0	1.0	0.16	0.24	IGBT / MOS	140.0	-

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
Three Phase									
IR2233	active and preferred	PDIP28	1200.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2233J	active and preferred	PLCC44	1200.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2233S	active and preferred	SOIC 28W	1200.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2235	active and preferred	PDIP28	1200.0	6.0	0.25	0.5	IGBT	750.0	1000.0
IR2235J	active and preferred	PLCC44	1200.0	6.0	0.25	0.5	IGBT	750.0	1000.0
IR2235S	active and preferred	SOIC 28W	1200.0	6.0	0.25	0.5	IGBT	750.0	1000.0
IR2130	active	PDIP28	600.0	6.0	0.25	0.5	IGBT / MOS	675.0	850.0
IR2130J	active	PLCC44	600.0	6.0	0.25	0.5	IGBT / MOS	675.0	850.0
IR2130S	active	SOIC 28W	600.0	6.0	0.25	0.5	IGBT / MOS	675.0	850.0
IR2131	active	PDIP28	600.0	6.0	0.25	0.5	IGBT / MOS	1300.0	2000.0
IR2131J	active	PLCC44	600.0	6.0	0.25	0.5	IGBT / MOS	1300.0	2000.0
IR2131S	active	SOIC 28W	600.0	6.0	0.25	0.5	IGBT / MOS	1300.0	2000.0
IR2132	active	PDIP28	600.0	6.0	0.25	0.5	IGBT / MOS	675.0	850.0
IR2132J	active	PLCC44	600.0	6.0	0.25	0.5	IGBT / MOS	675.0	850.0
IR2132S	active	SOIC 28W	600.0	6.0	0.25	0.5	IGBT / MOS	675.0	850.0
IR2133	active and preferred	PDIP28	600.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2133J	active and preferred	PLCC44	600.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2133S	active and preferred	SOIC 28W	600.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2135J	active and preferred	PLCC44	600.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2135S	active and preferred	SOIC 28W	600.0	6.0	0.25	0.5	IGBT / MOS	750.0	1000.0
IR2136	active and preferred	PDIP28	600.0	6.0	0.2	0.35	IGBT / MOS	425.0	550.0
IR21363J	active	PLCC44	600.0	6.0	0.2	0.35	IGBT	425.0	550.0
IR21363S	active	SOIC 28W	600.0	6.0	0.2	0.35	IGBT	425.0	550.0
IR21364S	active	SOIC 28W	600.0	6.0	0.2	0.35	IGBT	500.0	650.0
IR21365S	active	SOIC 28W	600.0	6.0	0.2	0.35	IGBT	425.0	550.0
IR21366J	active and preferred	PLCC44	600.0	6.0	0.2	0.35	IGBT / MOS	425.0	550.0
IR21368S	active	SOIC 28W	600.0	6.0	0.2	0.35	IGBT / MOS	425.0	550.0
IR2136J	active and preferred	PLCC44	600.0	6.0	0.2	0.35	IGBT / MOS	425.0	550.0

Level Shift Gate Drivers

Product	Product Status	Packages	Voltage Class [V]	Channels	Typ. Output Current (Source) [A]	Typ. Output Current (Sink) [A]	Switch Type	Turn On Propagation Delay typ. [ns]	Turn On Propagation Delay max [ns]
Three Phase									
IR2136S	active and preferred	SOIC 28W	600.0	6.0	0.2	0.35	IGBT / MOS	425.0	550.0
IRS2334M	active	MLPQ 5X5 28L	600.0	6.0	0.2	0.35	IGBT	530.0	750.0
IRS2334S	active	SOIC 20W	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
IRS23364DJ	active	PLCC44	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
IRS23364DS	active	SOIC 28W	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
IRS23365DM	active	MLPQ 7X7 34L	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
IRS2336DJ	active	PLCC44	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
IRS2336DM	active	MLPQ 7X7 34L	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
IRS2336DS	active	SOIC 28W	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
IRS2336S	active	SOIC 28W	600.0	6.0	0.2	0.35	IGBT / MOS	530.0	750.0
6ED003L06-C2	active and preferred	--	600.0	6.0	0.17	0.38	IGBT	-	-
6EDL04I06NC	active and preferred	--	600.0	6.0	0.17	0.375	MOS	-	-
6EDL04N06PC	active and preferred	--	600.0	6.0	0.17	0.375	IGBT	-	-
6ED003L06-F2	active and preferred	PG-DSO-28	600.0	6.0	0.165	0.375	IGBT	530.0	800.0
6EDL04I06NT	active and preferred	PG-DSO-28	600.0	6.0	0.165	0.375	IGBT	530.0	800.0
6EDL04I06PT	active and preferred	PG-DSO-28	600.0	6.0	0.165	0.375	IGBT	530.0	800.0
6EDL04N06PT	active and preferred	PG-DSO-28	600.0	6.0	0.165	0.375	MOS	530.0	800.0
6ED003L02-F2	active and preferred	PG-TSSOP-28	200.0	6.0	0.165	0.375	IGBT	530.0	800.0
6EDL04N02PR	active and preferred	PG-TSSOP-28	200.0	6.0	0.165	0.375	MOS	530.0	800.0
Three Phase and Single Low Side									
IR2238Q	active and preferred	MQFP-64L	1200.0	7.0	0.35	0.54	IGBT	500.0	750.0

Level Shift Gate Drivers Support

Product	Product Status	Packages	Voltage Class [V]	Channels	Switch Type
Current Sense					
IR22771S	active	SOIC 16W	1200.0 V	1.0	IGBT / MOS
IR2277S	active	SOIC 16W	1200.0 V	1.0	IGBT / MOS
IR25750L	active and preferred	SOT23	600.0 V	1.0	IGBT / MOS
IR2175	active	PDIP8	600.0 V	1.0	IGBT / MOS
IR2175S	active	SOIC 8N	600.0 V	1.0	IGBT / MOS
IR21771S	active	SOIC 16W	600.0 V	1.0	IGBT / MOS
IR2177S	active	SOIC 16W	600.0 V	1.0	IGBT / MOS
Start-Up					
IRS25751L	active and preferred	SOT23	480.0 V	1.0	IGBT / MOS

Digital Motor Controller (iMOTION™)

iMOTION™ is a family of highly integrated products for the control of a variable speed drive.

By integrating both the required hardware and software to perform sensor less control of a permanent magnet synchronous motor (PMSM) they provide the highest energy efficient appliance motor system with the lowest system cost.

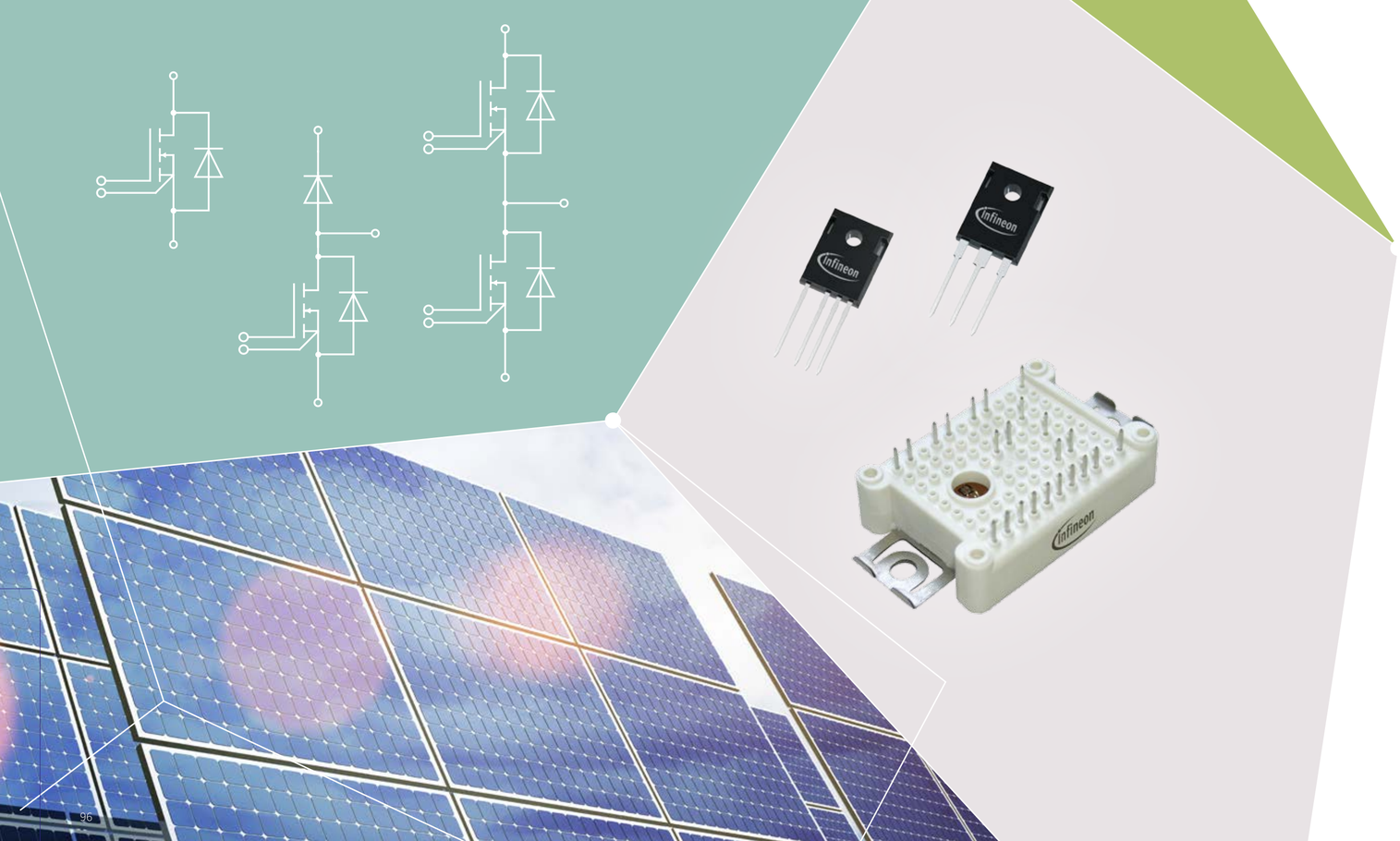
iMOTION™ ICs integrate all the control and analog interface functions required for sensor less field oriented control (FOC) of PM motors using DC link or leg shunt current measurements. In addition they feature Infineon's patented and field proven motor control engine (MCE) that eliminates software coding from the motor control algorithm development process. Implementing a variable speed drive is reduced to configuring the MCE for the respective motor. Assisted by powerful tools like MCEwizard and MCEDesigner it is possible to have the motor up and running in less than an hour.

Aimed at offering customers the best fitting solution the iMOTION™ family offers several levels of hardware integration. In addition to the stand-alone MCE control IC Infineon is offering variants with an additional microcontroller. The co-integrated 60 MIPS, 8-bit, 8051 microcontroller enables running application layer software almost independently of the MCE.

The highest integration level is achieved in the SmartIPM family members. The combination of the MCE, the additional MCU together with the gate driver and a three phase full bridge results in a complete inverter system in one small PQFN package.

Digital motor controller (iMOTION™)

Product	Product Status	Package	Integration Level	Control Option	Description	Type of Memory
Digital motor controller						
IRMCK099M	active	QFN32	MCE	1 motor	MCE stand-alone	OTP
IRMCF143	active	LQFP64	MCE+MCU	1 motor, Servo	Supports incremental encoder with Hall	Flash
IRMCK143	active	QFP64	MCE+MCU	1 motor, Servo	Supports incremental encoder with Hall	OTP
IRMCF171	active	LQFP48	MCE+MCU	1 motor	small package	Flash
IRMCK171	active	QFP48	MCE+MCU	1 motor	small package	OTP
IRMCK172M	active	QFN48	MCE+MCU	1 motor	small package	OTP
IRMCK182M	active	QFN32	MCE+MCU	1 motor	smallest package	OTP
IRMCF183M	active	QFN32	MCE+MCU	1 motor	smallest package	Flash
IRMCF188	active	LQFP64	MCE+MCU	1 motor + PFC	Dedicated PFC PWM for digital PFC control	Flash
IRMCF311	active	QFP64	MCE+MCU	2 motor + PFC	Dual motor control plus digital PFC control, external EEPROM required	RAM
IRMCK311	active	QFP64	MCE+MCU	2 motor + PFC	Dual motor control plus digital PFC control	OTP
IRMCK312	active	QFP100	MCE+MCU	2 motor + PFC	Dual motor control plus digital PFC control	OTP
IRMCF312	active	QFP100	MCE+MCU	2 motor + PFC	Dual motor control plus digital PFC control, external EEPROM required	RAM
IRMCF341	active	QFP64	MCE+MCU	1 motor	Supports incremental encoder with Hall, external EEPROM required	RAM
IRMCK341	active	QFP64	MCE+MCU	1 motor	Supports incremental encoder with Hall	OTP
IRMCF343	active	QFP64	MCE+MCU	1 motor + PFC	Dedicated PFC PWM for digital PFC control, external EEPROM required	RAM
IRMCK343	active	QFP64	MCE+MCU	1 motor + PFC	Dedicated PFC PWM for digital PFC control	OTP
IRMCF371	active	QFP48	MCE+MCU	1 motor	small package, external EEPROM required	RAM
IRMCK371	active	QFP48	MCE+MCU	1 motor	small package	OTP
IRMCF588Q	active	QFP100	MCE+MCU	2 motor + PFC	Dedicated PFC PWM for digital PFC control	Flash
IRDM982-035MB	active	Power-QFN 12x12 mm²	SmartIPM	1 motor	for three phase PMSM fan three hall sensors 500V / 3A	ROM
IRDM983-025MB	active and preferred	Power-QFN 12x12 mm²	SmartIPM	1 motor	for three phase PMSM fan two hall sensors 500V / 2A	ROM



SiC

Silicon Carbide

Silicon Carbide (SiC) devices belong to the so-called wide band gap semiconductor group, which offers a number of attractive characteristics for high voltage power semiconductors when compared to commonly used silicon (Si). In particular, the much higher breakdown field strength and thermal conductivity of SiC allow creating devices which outperform by far the corresponding Si ones, and enable reaching otherwise unattainable efficiency levels.

CoolSiC™ - The Future of Power Semiconductors
The use of SiC based power semiconductor solutions has shown a huge increase over the last years, it is a revolution to rely on. Driving forces behind this market development are the following trends: energy saving, size reduction, system integration and improved reliability. The combination of a fast silicon based switch with a SiC Diode – is often termed a “hybrid” solution. In recent years Infineon has manufactured several million hybrid modules and has seen them installed in various customer products.

The increase of switching frequency for a converter using unipolar SiC transistors can result in dramatically reduced volume and weight of the magnetic components. From an analysis carried out by Infineon, a converter built on SiC devices is a third of the size and 25 percent of the weight compared to a current Si based reference solution. Thanks to the significant reduction in volume and weight, the system costs can also be reduced by more than 20 percent.

CoolSiC™ Schottky diodes

Product	Product Status	Technology	V_{DC} min [V]	I_F max [A]	V_F [V]	Q_C [nC]	Package	I_{FSM} max [A]	I_R [uA]	C_T [pF]
D2PAK real 2pin										
IDK12G65C5	active and preferred	CoolSiC™ 5G	650.0	12.0	1.5	18.0	D2PAK (TO-263-2)	97.0	0.65	360.0
IDK10G65C5	active and preferred	CoolSiC™ 5G	650.0	10.0	1.5	15.0	D2PAK (TO-263-2)	82.0	0.5	300.0
IDK09G65C5	active and preferred	CoolSiC™ 5G	650.0	9.0	1.5	14.0	D2PAK (TO-263-2)	75.0	0.45	270.0
IDK08G65C5	active and preferred	CoolSiC™ 5G	650.0	8.0	1.5	13.0	D2PAK (TO-263-2)	68.0	0.4	250.0
IDK06G65C5	active and preferred	CoolSiC™ 5G	650.0	6.0	1.5	10.0	D2PAK (TO-263-2)	54.0	0.3	190.0
IDK05G65C5	active and preferred	CoolSiC™ 5G	650.0	5.0	1.5	8.0	D2PAK (TO-263-2)	46.0	0.25	160.0
IDK04G65C5	active and preferred	CoolSiC™ 5G	650.0	4.0	1.5	7.0	D2PAK (TO-263-2)	38.0	0.2	130.0
IDK03G65C5	active and preferred	CoolSiC™ 5G	650.0	3.0	1.5	5.0	D2PAK (TO-263-2)	31.0	0.15	100.0
IDK02G65C5	active and preferred	CoolSiC™ 5G	650.0	2.0	1.5	4.0	D2PAK (TO-263-2)	23.0	0.1	70.0
DPAK (TO-252)										
IDD12SG60C	active	CoolSiC™ 3G	600.0	12.0	1.8	19.0	DPAK (TO-252)	59.0	1.0	310.0
IDD10SG60C	active	CoolSiC™ 3G	600.0	10.0	1.8	16.0	DPAK (TO-252)	51.0	0.8	290.0
IDD09SG60C	active	CoolSiC™ 3G	600.0	9.0	1.8	15.0	DPAK (TO-252)	49.0	0.7	280.0
IDD08SG60C	active	CoolSiC™ 3G	600.0	8.0	1.8	12.0	DPAK (TO-252)	42.0	0.6	240.0
IDD06SG60C	active	CoolSiC™ 3G	600.0	6.0	2.1	8.0	DPAK (TO-252)	32.0	0.5	130.0
IDD05SG60C	active	CoolSiC™ 3G	600.0	5.0	2.1	6.0	DPAK (TO-252)	26.0	0.4	110.0
IDD04SG60C	active	CoolSiC™ 3G	600.0	4.0	2.1	4.5	DPAK (TO-252)	18.0	0.3	80.0
IDD03SG60C	active	CoolSiC™ 3G	600.0	3.0	2.1	3.2	DPAK (TO-252)	11.5	0.23	60.0
DPAK real 2pin										
IDM10G120C5	active and preferred	CoolSiC™ 5G	1200.0	10.0	1.5	41.0	DPAK (TO-252-2)	99.0	4.0	525.0
IDM08G120C5	active and preferred	CoolSiC™ 5G	1200.0	8.0	1.65	28.0	DPAK (TO-252-2)	70.0	3.0	365.0
IDM05G120C5	active and preferred	CoolSiC™ 5G	1200.0	5.0	1.5	24.0	DPAK (TO-252-2)	59.0	2.5	301.0
IDM02G120C5	active and preferred	CoolSiC™ 5G	1200.0	2.0	1.4	14.0	DPAK (TO-252-2)	37.0	1.2	182.0

Product	Product Status	Technology	V_{DC} min [V]	I_F max [A]	V_F [V]	Q_C [nC]	Package	I_{FSM} max [A]	I_R [uA]	C_T [pF]
ThinPAK										
IDL12G65C5	active and preferred	CoolSiC™ 5G	650.0	12.0	1.5	18.0	ThinPAK 8x8	57.0	0.65	360.0
IDL10G65C5	active and preferred	CoolSiC™ 5G	650.0	10.0	1.5	15.0	ThinPAK 8x8	50.0	0.5	300.0
IDL08G65C5	active and preferred	CoolSiC™ 5G	650.0	8.0	1.5	13.0	ThinPAK 8x8	43.0	0.4	250.0
IDL06G65C5	active and preferred	CoolSiC™ 5G	650.0	6.0	1.5	10.0	ThinPAK 8x8	36.0	0.3	190.0
IDL04G65C5	active and preferred	CoolSiC™ 5G	650.0	4.0	1.5	7.0	ThinPAK 8x8	29.0	0.2	130.0
IDL02G65C5	active and preferred	CoolSiC™ 5G	650.0	2.0	1.5	4.0	ThinPAK 8x8	21.0	0.1	70.0

CoolSiC™ Schottky diodes

Product	Product Status	Technology	V_{DC}min [V]	$I_F$max [A]	V_F [V]	Q_C [nC]	Package	I_{FSM}max [A]	I_R [uA]	C_T [pF]
TO-220 real 2pin										
IDH20G120C5	active and preferred	CoolSiC™ 5G	1200.0	20.0	1.5	82.0	TO-220 real 2pin	198.0	8.5	1050.0
IDH16G120C5	active and preferred	CoolSiC™ 5G	1200.0	16.0	1.65	57.0	TO-220 real 2pin	140.0	5.5	730.0
IDH10G120C5	active and preferred	CoolSiC™ 5G	1200.0	10.0	1.5	41.0	TO-220 real 2pin	99.0	4.0	525.0
IDH08G120C5	active and preferred	CoolSiC™ 5G	1200.0	8.0	1.65	28.0	TO-220 real 2pin	70.0	3.0	365.0
IDH05G120C5	active and preferred	CoolSiC™ 5G	1200.0	5.0	1.5	24.0	TO-220 real 2pin	59.0	2.5	301.0
IDH02G120C5	active and preferred	CoolSiC™ 5G	1200.0	2.0	1.4	14.0	TO-220 real 2pin	37.0	1.2	182.0
IDH20G65C5	active and preferred	CoolSiC™ 5G	650.0	20.0	1.5	29.0	TO-220 real 2pin	142.0	1.1	590.0
IDH16G65C5	active and preferred	CoolSiC™ 5G	650.0	16.0	1.5	23.0	TO-220 real 2pin	124.0	0.85	470.0
IDH12G65C5	active and preferred	CoolSiC™ 5G	650.0	12.0	1.5	18.0	TO-220 real 2pin	97.0	0.65	360.0
IDH10G65C5	active and preferred	CoolSiC™ 5G	650.0	10.0	1.5	15.0	TO-220 real 2pin	82.0	0.5	300.0
IDH02G65C5	active and preferred	CoolSiC™ 5G	650.0	2.0	1.5	4.0	TO-220 real 2pin	23.0	0.1	70.0
IDH08G65C5	active and preferred	CoolSiC™ 5G	650.0	8.0	1.5	13.0	TO-220 real 2pin	68.0	0.4	250.0
IDH06G65C5	active and preferred	CoolSiC™ 5G	650.0	6.0	1.5	10.0	TO-220 real 2pin	54.0	0.3	190.0
IDH04G65C5	active and preferred	CoolSiC™ 5G	650.0	4.0	1.5	7.0	TO-220 real 2pin	38.0	0.2	130.0
IDH03G65C5	active and preferred	CoolSiC™ 5G	650.0	3.0	1.5	5.0	TO-220 real 2pin	31.0	0.2	100.0
IDH12SG60C	active	CoolSiC™ 3G	600.0	12.0	1.8	19.0	TO-220 real 2pin	59.0	1.0	310.0
IDH10SG60C	active	CoolSiC™ 3G	600.0	10.0	1.8	16.0	TO-220 real 2pin	51.0	0.8	290.0
IDH09SG60C	active	CoolSiC™ 3G	600.0	9.0	1.8	15.0	TO-220 real 2pin	49.0	0.7	280.0
IDH08SG60C	active	CoolSiC™ 3G	600.0	8.0	1.8	12.0	TO-220 real 2pin	42.0	0.6	240.0
IDH06SG60C	active	CoolSiC™ 3G	600.0	6.0	2.1	8.0	TO-220 real 2pin	32.0	0.5	130.0
IDH05SG60C	active	CoolSiC™ 3G	600.0	5.0	2.1	6.0	TO-220 real 2pin	26.0	0.4	110.0
IDH04SG60C	active	CoolSiC™ 3G	600.0	4.0	2.1	4.5	TO-220 real 2pin	18.0	0.3	80.0
IDH03SG60C	active	CoolSiC™ 3G	600.0	3.0	2.1	3.2	TO-220 real 2pin	11.5	0.23	60.0

Product	Product Status	Technology	V_{DC}min [V]	$I_F$max [A]	V_F [V]	Q_C [nC]	Package	I_{FSM}max [A]	I_R [uA]	C_T [pF]
TO-247										
IDW30G120C5B	active and preferred	CoolSiC™ 5G	1200.0	30.0	1.4	154.0	TO-247	240.0	17.0	1980.0
IDW20G120C5B	active and preferred	CoolSiC™ 5G	1200.0	20.0	1.4	106.0	TO-247	190.0	12.0	1368.0
IDW15G120C5B	active and preferred	CoolSiC™ 5G	1200.0	15.0	1.4	82.0	TO-247	170.0	8.0	1050.0
IDW40G120C5B	active and preferred	CoolSiC™ 5G	1200.0	40.0	1.4	202.0	TO-247	290.0	23.0	2592.0
IDW10G120C5B	active and preferred	CoolSiC™ 5G	1200.0	10.0	1.4	57.0	TO-247	140.0	6.0	730.0
IDW40G65C5	active and preferred	CoolSiC™ 5G	650.0	40.0	1.5	55.0	TO-247	182.0	2.2	1140.0
IDW30G65C5	active and preferred	CoolSiC™ 5G	650.0	30.0	1.5	42.0	TO-247	165.0	1.6	860.0
IDW20G65C5	active and preferred	CoolSiC™ 5G	650.0	20.0	1.5	29.0	TO-247	103.0	1.1	590.0
IDW16G65C5	active and preferred	CoolSiC™ 5G	650.0	16.0	1.5	23.0	TO-247	95.0	0.8	470.0
IDW12G65C5	active and preferred	CoolSiC™ 5G	650.0	12.0	1.5	18.0	TO-247	71.0	0.6	360.0
IDW10G65C5	active and preferred	CoolSiC™ 5G	650.0	10.0	1.5	15.0	TO-247	58.0	0.5	300.0

SiC modules

Product	Product Status	Configuration	V_{CES} / V_{RRM} [V]	I_C(nom) / $I_{F(nom)}$ [A]	Technology	$V_{CE(sat)}$ (Tvj=25°C typ) [V]	V_F (Tvj=25°C typ) [V]	Dimensions (width) [mm]	Dimensions (length) [mm]	Features
PrimePACK™ 2										
FF600R12IS4F	active and preferred	Dual	1200.0	600.0	IGBT2 Fast	3.2	1.6	89.0	172.0	SiC Schottky diode
EasyPACK 1B										
DF100R07W1H5FP_B53	active and preferred	Booster with NTC	650.0	100.0	TRENCHSTOP™ 5	1.35	1.6	33.8	48.0	SiC Schottky diode, TIM, PressFIT
DF200R12W1H3F_B11	active and preferred	Booster with NTC	1200.0	200.0	IGBT HighSpeed 3	1.3	1.6	33.8	48.0	SiC Schottky diode, PressFIT
DF75R12W1H4F_B11	active and preferred	Chopper	1200.0	75.0	IGBT HighSpeed 2	2.1	1.6	33.8	48.0	SiC Schottky diode, PressFIT
EasyPACK 2B										
FS3L30R07W2H3F_B11	active and preferred	3-level	650.0	30.0	IGBT HighSpeed 3	1.5	1.6	48.0	56.7	SiC Schottky diode, PressFIT
FS3L50R07W2H3F_B11	active and preferred	3-level	650.0	50.0	IGBT HighSpeed 3	1.45	1.6	48.0	56.7	SiC Schottky diode, PressFIT
DF160R12W2H3F_B11	active and preferred	Booster with NTC	1200.0	160.0	IGBT HighSpeed 3	1.55	1.6	48.0	56.7	SiC Schottky diode, PressFIT
DF80R12W2H3F_B11	active and preferred	Booster with NTC	1200.0	80.0	IGBT HighSpeed 3	1.55	1.6	48.0	56.7	SiC Schottky diode, PressFIT
F4-75R07W2H3_B51	active and preferred	Fourpack	650.0	75.0	IGBT HighSpeed 3	1.35	1.45	48.0	56.7	SiC Schottky diode, PressFIT

SiC

Discs

High Power Thyristor / Diode Discs

Innovative technology with lower losses leading to higher efficiency
Our high-performance thyristors and diodes are used by producers and consumers to boost efficiency significantly in many applications. They have set standards in a power range from 10 kW to over 10 GW and allows various design options due to different technologies. Infineon Technologies Bepolar is the only one who provides high voltage capability up to 9,5 kV for thyristor discs.

Solution tree

Transmission & Distribution (T&D)

HVDC

LCC (Line Commutated Converters)

Thyristors

› **9.5 kV ETTs** (Electrically Triggered Thyristors)
› T1901N80TOH
› T2871N80TOH
› T7300N80TOH

› **9.5 kV LTTs** (LightTriggered Thyristors)
› T1503N80TOH
› T2563N80TOH
› T6900N92L204

VSC (Voltage Sourced Converters)

Freewheeling Diodes (FWD)
› D1600U45T
› D2700U45T
› D4600U45T

Protection Thyristors
› T1930N33T
› T1800N45T
› C3100N65T

Rectifier Diodes
› D3300H90X152

FACTS

SVC (Static Var Compensators)

9.5 kV ETTs
› T1901N80TOH
› T2871N80TOH

9.5 kV LTTs
› T533N80TOH
› T1503N80TOH
› T2563N80TOH

STATCOM (Static Synchronous Compensators)

FWD
› D1600U45T
› D2700U45T
› D4600U45T

Fast rectifier diodes

Product	V_{RRM} [V]	I_{FAVM}/T_C [A/°C] (@180° el sin)	I_{FSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10_3$] (@10ms, Tvj max)	V_f/I_f [V/kA] (@Tvj max)	V_{f0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	I_{RM} [A] (@IF = IFAVM, di/dt = 50 A/µs) max	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Fast Rectifier diodes up to 1400V										
D650S14T QR	1400.0	650/96	10100.0	510.0	2.25/2.7	1.0	0.45	122.0	48.0	150.0
D650S14T	1400.0	650/96	10100.0	510.0	2.25/2.7	1.0	0.45	122.0	48.0	150.0
D650S12T	1200.0	650/96	10100.0	510.0	2.25/2.7	1.0	0.45	122.0	48.0	150.0
Fast Rectifier diodes up to 2600V										
D450S20T	2000.0	443/100	4600.0	106.0	2.25/1.2	1.0	0.9	160.0	57.0	150.0
D450S16T	1600.0	443/100	4600.0	106.0	2.25/1.2	1.0	0.9	160.0	57.0	150.0
D690S26T	2600.0	690/100	11500.0	661.0	2.7/3.0	1.0	0.5	230.0	39.0	150.0
D690S24T	2400.0	690/100	11500.0	661.0	2.7/3.0	1.0	0.5	230.0	39.0	150.0
D690S22T	2200.0	690/100	11500.0	661.0	2.7/3.0	1.0	0.5	230.0	39.0	150.0
D690S20T	2000.0	690/100	11500.0	661.0	3.7/3.0	1.0	0.5	230.0	39.0	150.0
Fast Rectifier diodes up to 6000V										
D291S45T	4500.0	290/85	4500.0	100.0	4.15/1.2	1.9	1.76	500.0	40.0	125.0
D371S45T	4500.0	330/85	6000.0	180.0	3.9/1.2	2.0	1.49	500.0	18.0	125.0
GTO - Freewheeling Diodes										
D721S45T	4500.0	720/85	15000.0	1300.0	3.5/2.5	1.7	0.69	600.0	18.0	125.0
D721S35T VF	3500.0	720/85	15000.0	1300.0	3.5/2.5	1.7	0.69	600.0	18.0	125.0
D921S45T	4500.0	1380/85	28000.0	2650.0	2.6/2.5	1.4	0.48	800.0	12.5	140.0
D1251S45T	4500.0	1310/85	18000.0	1620.0	2.5/2.5	1.25	0.45	800.0	14.0	140.0
D1381S45T	4500.0	1380/85	28000.0	5120.0	2.6/2.5	1.4	0.48	700.0	12.5	140.0
D1461S45T	4500.0	1460/85	28000.0	5120.0	2.5/2.5	1.43	0.38	840.0	12.5	140.0

Rectifier diodes

Product	V_{RRM} [V]	I_{FAVM}/T_C [A/°C] (@180° el sin)	I_{FSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [A^2 s · 10^3] (@10ms, Tvj max)	V_F/I_F [V/kA] (@Tvj max)	V_{TO} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max	Clamping force [kn] min	Clamping force [kn] max
Ceramic Discs up to 800V											
D650N08T	800.0	651/100	510.0	130.0	1.44/1.35	0.7	0.51	81.0	180.0	2.6	4.6
D650N06T	600.0	651/100	510.0	130.0	1.44/1.35	0.7	0.51	81.0	180.0	2.6	4.6
D650N04T	400.0	651/100	510.0	130.0	1.44/1.35	0.7	0.51	81.0	180.0	2.6	4.6
D650N02T	200.0	651/100	510.0	130.0	1.44/1.35	0.7	0.51	81.0	180.0	2.6	4.6
D970N08T	800.0	972/100	8800.0	387.0	1.45/2.3	0.7	0.31	57.0	180.0	3.9	7.6
D970N06T	600.0	972/100	8800.0	387.0	1.45/2.3	0.7	0.31	57.0	180.0	3.9	7.6
D970N04T	400.0	972/100	8800.0	387.0	1.45/2.3	0.7	0.31	57.0	180.0	3.9	7.6
D970N02T	200.0	972/100	8800.0	387.0	1.45/2.3	0.7	0.31	57.0	180.0	3.9	7.6
D2450N07T	700.0	2452/100	4000.0	4061.0	1.5/7.7	0.7	0.1	25.3	180.0	12.0	24.0
D2450N06T	600.0	2452/100	4000.0	4061.0	1.5/7.7	0.7	0.1	25.3	180.0	12.0	24.0
D2450N04T	400.0	2452/100	4000.0	4061.0	1.5/7.7	0.7	0.1	25.3	180.0	12.0	24.0
D2450N02T	200.0	2452/100	4000.0	4061.0	1.5/7.7	0.7	0.1	25.3	180.0	12.0	24.0
D5810N06T VF	600.0	5800/58	70000.0	24500.0	1.47/18.0	0.7	0.04	17.0	180.0	30.0	60.0
D5810N04T VF	400.0	5800/58	70000.0	24500.0	1.47/18.0	0.7	0.04	17.0	180.0	30.0	60.0
D5810N02T VF	200.0	5800/58	70000.0	24500.0	1.47/18.0	0.7	0.04	17.0	180.0	30.0	60.0
D8320N06T VF	600.0	8320/56	95000.0	45000.0	0.94/10.0	0.7	0.02	12.5	180.0	40.0	80.0
D8320N04T VF	400.0	8320/56	95000.0	45000.0	0.94/10.0	0.7	0.02	12.5	180.0	40.0	80.0
D8320N02T VF	200.0	8320/56	95000.0	45000.0	0.94/10.0	0.7	0.02	12.5	180.0	40.0	80.0
Ceramic Discs up to 1800V											
D1050N18T	1800.0	1050/130	18500.0	1710.0	1.76/5.0	0.81	0.17	38.0	180.0	10.0	24.0
D1050N16T	1600.0	1050/130	18500.0	1710.0	1.76/5.0	0.81	0.17	38.0	180.0	10.0	24.0
D1050N14T	1400.0	1050/130	18500.0	1710.0	1.76/5.0	0.81	0.17	38.0	180.0	10.0	24.0
D1050N12T	1200.0	1050/130	18500.0	1710.0	1.76/5.0	0.81	0.17	38.0	180.0	10.0	24.0
D1230N18T	1800.0	1234/100	11800.0	696.0	1.77/3.2	0.81	0.28	39.0	180.0	6.0	15.0
D1230N16T	1600.0	1234/100	11800.0	696.0	1.77/3.2	0.81	0.28	39.0	180.0	6.0	15.0
D1230N14T	1400.0	1234/100	11800.0	696.0	1.77/3.2	0.81	0.28	39.0	180.0	6.0	15.0
D1230N12T	1200.0	1234/100	11800.0	696.0	1.77/3.2	0.81	0.28	39.0	180.0	6.0	15.0

Product	V_{RRM} [V]	I_{FAVM}/T_C [A/°C] (@180° el sin)	I_{FSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [A^2 s · 10^3] (@10ms, Tvj max)	V_F/I_F [V/kA] (@Tvj max)	V_{TO} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max	Clamping force [kn] min	Clamping force [kn] max
Ceramic Discs up to 3000V											
D770N20T	2000.0	767/100	6000.0	180.0	1.76/1.6	0.81	0.54	57.0	180.0	3.2	7.6
D770N18T	1800.0	767/100	6000.0	180.0	1.76/1.6	0.81	0.54	57.0	180.0	3.2	7.6
D770N16T	1600.0	767/100	6000.0	180.0	1.76/1.6	0.81	0.54	57.0	180.0	3.2	7.6
D770N14T	1400.0	767/100	6000.0	180.0	1.76/1.6	0.81	0.54	57.0	180.0	3.2	7.6
D770N12T	1200.0	767/100	6000.0	180.0	1.76/1.6	0.81	0.54	57.0	180.0	3.2	7.6
D950N22T	2200.0	950/100	10250.0	525.0	2.1/2.8	0.7	0.5	45.0	180.0	6.0	12.0
D950N18T	1800.0	950/100	10250.0	525.0	2.1/2.8	0.7	0.5	45.0	180.0	6.0	12.0
D820N28T	2800.0	818/100	9000.0	405.0	2.15/2.4	0.83	0.52	39.0	160.0	6.0	15.0
D820N26T	2600.0	818/100	9000.0	405.0	2.15/2.4	0.83	0.52	39.0	160.0	6.0	15.0
D820N24T	2400.0	818/100	9000.0	405.0	2.15/2.4	0.83	0.52	39.0	160.0	6.0	15.0
D820N22T	2200.0	818/100	9000.0	405.0	2.15/2.4	0.83	0.52	39.0	160.0	6.0	15.0
D820N20T	2000.0	818/100	9000.0	405.0	2.15/2.4	0.83	0.52	39.0	160.0	6.0	15.0
D1030N26T	2600.0	1030/100	14500.0	1051.0	2.05/4.0	0.82	0.28	38.0	160.0	10.0	24.0
D1030N24T	2400.0	1030/100	14500.0	1051.0	2.05/4.0	0.82	0.28	38.0	160.0	10.0	24.0
D1030N22T	2200.0	1030/100	14500.0	1051.0	2.05/4.0	0.82	0.28	38.0	160.0	10.0	24.0
D2200N24T VF	2400.0	2200/100	35000.0	6125.0	1.17/2.5	0.83	0.15	17.0	160.0	24.0	60.0
D2200N22T VF	2200.0	2200/100	35000.0	6125.0	1.17/2.5	0.83	0.15	17.0	160.0	24.0	60.0
D2200N20T VF	2000.0	2200/100	35000.0	6125.0	1.17/2.5	0.83	0.15	17.0	160.0	24.0	60.0
D2520N22T VF	2200.0	2520/100	35000.0	6125.0	1.57/10.2	0.73	0.1	22.0	175.0	15.0	24.0
D2650N24T VF	2400.0	3520 / 100	41000.0	5611.0	2.25/9.0	0.82	0.15	16.9	180.0	24.0	60.0
D4201N22T	2200.0	4830/100	73500.0	27000.0	0.94/4.0	0.67	0.08	9.2	160.0	36.0	52.0
D4201N20T	2000.0	4830/100	73500.0	27000.0	0.94/4.0	0.67	0.08	9.2	160.0	36.0	52.0
D4810N28T VF	2800.0	4810/100	60000.0	18000.0	1.45/10.0	0.83	0.06	8.0	160.0	42.0	95.0
D4810N24T VF	2400.0	4810/100	60000.0	18000.0	1.45/10.0	0.83	0.06	8.0	160.0	42.0	95.0
D4810N22T VF	2200.0	4810/100	60000.0	18000.0	1.45/10.0	0.83	0.06	8.0	160.0	42.0	95.0
D4810N20T VF	2000.0	4810/100	60000.0	18000.0	1.45/10.0	0.83	0.06	8.0	160.0	42.0	95.0

Rectifier diodes

Product	V_{RRM} [V]	I_{FAVM}/T_C [A/°C] (@180° el sin)	I_{FSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [A^2 s · 10^3] (@10ms, Tvj max)	V_F/I_F [V/kA] (@Tvj max)	V_{TO} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max	Clamping force [kn] min	Clamping force [kn] max
Ceramic Discs up to 5000V											
D270N36T	3600.0	270/100	4000.0	80.0	2.6/1.05	0.86	1.54	98.0	150.0	3.2	7.6
D740N48T	4800.0	750/100	11000.0	605.0	2.94/3.0	0.85	0.65	39.0	160.0	10.0	24.0
D740N46T	4600.0	750/100	11000.0	605.0	2.94/3.0	0.85	0.65	39.0	160.0	10.0	24.0
D740N44T	4400.0	750/100	11000.0	605.0	2.94/3.0	0.85	0.65	39.0	160.0	10.0	24.0
D740N42T	4200.0	750/100	11000.0	605.0	2.94/3.0	0.85	0.65	39.0	160.0	10.0	24.0
D740N40T	4000.0	750/100	11000.0	605.0	2.94/3.0	0.85	0.65	39.0	160.0	10.0	24.0
D740N36T	3600.0	750/100	11000.0	605.0	2.94/3.0	0.85	0.65	39.0	160.0	10.0	24.0
D850N40T	4000.0	850/100	12800.0	819.0	2.62/3.5	0.84	0.49	38.0	160.0	10.0	24.0
D850N36T	3600.0	850/100	12800.0	819.0	2.62/3.5	0.84	0.49	38.0	160.0	10.0	24.0
D850N34T	3400.0	850/100	12800.0	819.0	2.62/3.5	0.84	0.49	38.0	160.0	10.0	24.0
D850N32T	3200.0	850/100	12800.0	819.0	2.62/3.5	0.84	0.49	38.0	160.0	10.0	24.0
D850N30T	3000.0	850/100	12800.0	819.0	2.62/3.5	0.84	0.49	38.0	160.0	10.0	24.0
D850N28T	2800.0	850/100	12800.0	819.0	2.62/3.5	0.84	0.49	38.0	160.0	10.0	24.0
D1800N48T VF	4800.0	1800/100	27500.0	3781.0	2.82/7.4	0.85	0.25	16.9	160.0	24.0	60.0
D1800N46T VF	4600.0	1800/100	27500.0	3781.0	2.82/7.4	0.85	0.25	16.9	160.0	24.0	60.0
D1800N44T VF	4400.0	1800/100	27500.0	3781.0	2.82/7.4	0.85	0.25	16.9	160.0	24.0	60.0
D1800N43T VF	4300.0	1800/100	27500.0	3781.0	2.82/7.4	0.85	0.25	16.9	160.0	24.0	60.0
D1800N42T VF	4200.0	1800/100	27500.0	3781.0	2.82/7.4	0.85	0.25	16.9	160.0	24.0	60.0
D1800N40T VF	4000.0	1800/100	27500.0	3781.0	2.82/7.4	0.85	0.25	16.9	160.0	24.0	60.0
D1800N36T VF	3600.0	1800/100	27500.0	3781.0	2.82/7.4	0.85	0.25	16.9	160.0	24.0	60.0
D2201N45T	4500.0	2320/100	38000.0	7220.0	1.17/2.5	0.69	0.206	11.2	140.0	27.0	45.0
D3501N42T	4200.0	3690/100	56000.0	15700.0	1.2/4.0	0.73	0.13	9.2	160.0	36.0	52.0
D3501N40T PR	4000.0	3690/100	56000.0	15700.0	1.2/4.0	0.73	0.13	9.2	160.0	36.0	52.0
D6001N50T	5000.0	6070/100	110000.0	60500.0	1.15/6.0	0.8	0.09	4.6	160.0	63.0	91.0

Product	V_{RRM} [V]	I_{FAVM}/T_C [A/°C] (@180° el sin)	I_{FSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [A^2 s · 10^3] (@10ms, Tvj max)	V_F/I_F [V/kA] (@Tvj max)	V_{TO} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max	Clamping force [kn] min	Clamping force [kn] max
Ceramic Discs up to 10000V											
D471N90T	9000.0	565/100	10000.0	500.0	3.0/1.2	1.04	1.78	31.5	160.0	10.0	16.0
D471N85T	8500.0	565/100	10000.0	500.0	3.0/1.2	1.04	1.78	31.5	160.0	10.0	16.0
D471N80T	8000.0	565/100	10000.0	500.0	3.0/1.2	1.04	1.78	31.5	160.0	10.0	16.0
D711N68T	6800.0	790/100	10500.0	550.0	1.77/1.2	0.84	0.87	31.5	160.0	10.0	16.0
D711N65T	6500.0	790/100	10500.0	550.0	1.77/1.2	0.84	0.87	31.5	160.0	10.0	16.0
D711N60T	6000.0	790/100	10500.0	550.0	1.77/1.2	0.84	0.87	31.5	160.0	10.0	16.0
D1481N68T VF	6800.0	1650/100	24500.0	3000.0	1.8/2.5	0.75	0.42	15.8	160.0	15.0	36.0
D1481N65T	6500.0	1650/100	24500.0	3000.0	1.8/2.5	0.75	0.42	15.8	160.0	15.0	36.0
D1481N62T	6200.0	1650/100	24500.0	3000.0	1.8/2.5	0.75	0.42	15.8	160.0	15.0	36.0
D1481N60T	6000.0	1650/100	24500.0	3000.0	1.8/2.5	0.75	0.42	15.8	160.0	15.0	36.0
D1481N58T	5800.0	1650/100	24500.0	3000.0	1.8/2.5	0.75	0.42	15.8	160.0	15.0	36.0
D1721NH90T	9000.0	1670/85	35000.0	5780.0	3.5/4.0	1.36	0.65	7.5	140.0	36.0	52.0
D3001N68T	6800.0	2900/100	53000.0	14040.0	1.8/4.0	0.84	0.22	9.2	160.0	36.0	52.0
D3001N65T	6500.0	2900/100	53000.0	14040.0	1.8/4.0	0.84	0.22	9.2	160.0	36.0	52.0
D3001N60T PR	6000.0	2900/100	53000.0	14040.0	1.8/4.0	0.84	0.22	9.2	160.0	36.0	52.0
D3001N58T	5800.0	2900/100	53000.0	14040.0	1.8/4.0	0.84	0.22	9.2	160.0	36.0	52.0
D3041N68T	6800.0	3040/100	53000.0	14040.0	1.7/4.0	0.84	0.22	8.55	160.0	36.0	52.0
D3041N65T	6500.0	3040/100	53000.0	14040.0	1.7/4.0	0.84	0.22	8.55	160.0	36.0	52.0
D3041N58T	5800.0	3040/100	53000.0	14040.0	1.7/4.0	0.84	0.22	8.55	160.0	36.0	52.0
D2601N90T	9000.0	2240/100	50000.0	12500.0	2.6/4.0	0.94	0.41	8.55	160.0	36.0	52.0
D2601N85T	8500.0	2240/100	50000.0	12500.0	2.6/4.0	0.94	0.41	8.55	160.0	36.0	52.0
D2601NH90T	9000.0	1440/85	22000.0	12500.0	2.6/4.0	0.94	0.41	8.55	160.0	36.0	52.0

IGCT / IGBT freewheeling diodes

Product	V_{RRM} [V]	V_R(D) [kV] (@TC = 25°)	I_{FAVM}/T_C [A/°C] (@180° el sin)	IFSM [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	VF/IF [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	rT [mΩ] (@Tvj max) max	Q_r [mAs] (@di/dt = 1000 A/µs, IFM = 2.5 kA, Tvj max) max	I_{RM} [A] (@di/dt = 1000 A/µs, IFM = 2.5 kA, Tvj max) max
Freewheeling diodes										
D931SH65T	6500.0	3.2	940/85	16000.0	1280.0	5.6/2.5	1.99	1.44	3.5	1300.0
D1031SH45T	4500.0	2.8	1120/85	23000.0	2645.0	4.2/2.5	1.78	0.968	3.5	1500.0
D1131SH65T	6500.0	3.2	1100/85	22000.0	-	4,2/2,5	2.19	1.364	3.5	1200.0
D1331SH45T	4500.0	2.8	1310/85	28000.0	1530.0	5.6/2.5	1.83	0.948	3.5	1500.0
D1951SH65T	6500.0	3.2	1920/85	44000.0	9680.0	4.0/2.5	1.77	0.892	5.0	1800.0
D1961SH45T	4500.0	2.8	1830/85	40000.0	8000.0	2.5/2.5	1.25	0.5	12.0	2250.0

Thyristor discs

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{TJ}/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 800 V										
T580N06TOF	600.0	568/85	5500.0	151.0	1.63/1.5	1.0	0.4	200.0	62.0	140.0
T580N04TOF	400.0	568/85	5500.0	151.0	1.63/1.5	1.0	0.4	200.0	62.0	140.0
T580N02TOF	200.0	568/85	5500.0	151.0	1.63/1.5	1.0	0.4	200.0	62.0	140.0
T690N06TOF	600.0	694/85	6700.0	225.0	1.76/2.0	0.8	0.44	200.0	51.0	140.0
T690N04TOF	400.0	694/85	6700.0	225.0	1.76/2.0	0.8	0.44	200.0	51.0	140.0
T690N02TOF	200.0	694/85	6700.0	225.0	1.76/2.0	0.8	0.44	200.0	51.0	140.0
T920N06TOF	600.0	925/85	12000.0	720.0	1.65/2.5	1.0	0.23	150.0	39.0	140.0
T920N04TOF	400.0	925/85	12000.0	720.0	1.65/2.5	1.0	0.23	150.0	39.0	140.0
T920N02TOF	200.0	925/85	12000.0	720.0	1.65/2.5	1.0	0.23	150.0	39.0	140.0
T1080N06TOF	600.0	1075/85	14500.0	1050.0	1.81/3.5	1.02	0.2	150.0	33.0	140.0
T1080N04TOF	400.0	1075/85	14500.0	1050.0	1.81/3.5	1.02	0.2	150.0	33.0	140.0
T1080N02TOF	200.0	1075/85	14500.0	1050.0	1.81/3.5	1.02	0.2	150.0	33.0	140.0
T1410N06TOF	600.0	1490/85	20000.0	2000.0	1.50/4.5	1.0	0.1	200.0	27.0	140.0
T1410N04TOF	400.0	1490/85	20000.0	2000.0	1.50/4.5	1.0	0.1	200.0	27.0	140.0
T1410N02TOF	200.0	1490/85	20000.0	2000.0	1.50/4.5	1.0	0.1	200.0	27.0	140.0
T2510N06TOF VT	600.0	2509/85	42000.0	8820.0	1.22/6.0	0.75	0.072	200.0	18.4	140.0
T2510N04TOF VT	400.0	2509/85	42000.0	8820.0	1.22/6.0	0.75	0.072	200.0	18.4	140.0
T2510N02TOF VT	200.0	2509/85	42000.0	8820.0	1.22/6.0	0.75	0.072	200.0	18.4	140.0
T3710N06TOF VT	600.0	3710/85	60000.0	18000.0	1.50/15.0	0.75	0.048	200.0	12.5	140.0
T3710N04TOF VT	400.0	3710/85	60000.0	18000.0	1.50/15.0	0.75	0.048	200.0	12.5	140.0
T3710N02TOF VT	200.0	3710/85	60000.0	18000.0	1.50/15.0	0.75	0.048	200.0	12.5	140.0

Thyristor discs

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 1800 V										
T300N18TOF	1800.0	303/85	3400.0	58.0	2.20/0.8	0.9	1.35	200.0	69.0	125.0
T300N16TOF	1600.0	303/85	3400.0	58.0	2.20/0.8	0.9	1.35	200.0	69.0	125.0
T300N14TOF	1400.0	303/85	3400.0	58.0	2.20/0.8	0.9	1.35	200.0	69.0	125.0
T300N12TOF	1200.0	303/85	3400.0	58.0	2.20/0.8	0.9	1.35	200.0	69.0	125.0
T300N10TOF	1000.0	303/85	3400.0	58.0	2.20/0.8	0.9	1.35	200.0	69.0	125.0
T390N16TOF	1600.0	381/85	4250.0	91.0	2.00/1.1	0.85	0.9	200.0	62.0	125.0
T390N14TOF	1400.0	381/85	4250.0	91.0	2.00/1.1	0.85	0.9	200.0	62.0	125.0
T390N12TOF	1200.0	381/85	4250.0	91.0	2.00/1.1	0.85	0.9	200.0	62.0	125.0
T420N18TOF	1800.0	424/85	6400.0	205.0	2.10/1.5	0.9	0.75	220.0	56.0	125.0
T420N16TOF	1600.0	424/85	6400.0	205.0	2.10/1.5	0.9	0.75	220.0	56.0	125.0
T420N14TOF	1400.0	424/85	6400.0	205.0	2.10/1.5	0.9	0.75	220.0	56.0	125.0
T420N12TOF	1200.0	424/85	6400.0	205.0	2.10/1.5	0.9	0.75	220.0	56.0	125.0
T430N18TOF	1800.0	433/85	4600.0	106.0	2.07/1.2	0.85	0.9	250.0	51.0	125.0
T430N16TOF	1600.0	433/85	4600.0	106.0	2.07/1.2	0.85	0.9	250.0	51.0	125.0
T430N14TOF	1400.0	433/85	4600.0	106.0	2.07/1.2	0.85	0.9	250.0	51.0	125.0
T430N12TOF	1200.0	433/85	4600.0	106.0	2.07/1.2	0.85	0.9	250.0	51.0	125.0
T470N16TOF	1600.0	470/85	6350.0	202.0	1.85/1.2	0.8	0.75	250.0	51.0	125.0
T470N14TOF	1400.0	470/85	6350.0	202.0	1.85/1.2	0.8	0.75	250.0	51.0	125.0
T470N12TOF	1200.0	470/85	6350.0	202.0	1.85/1.2	0.8	0.75	250.0	51.0	125.0
T560N18TOF	1800.0	559/85	6900.0	238.0	1.92/1.6	0.8	0.6	250.0	44.0	125.0
T560N16TOF	1600.0	559/85	6900.0	238.0	1.92/1.6	0.8	0.6	250.0	44.0	125.0
T560N14TOF	1400.0	559/85	6900.0	238.0	1.92/1.6	0.8	0.6	250.0	44.0	125.0
T560N12TOF	1200.0	559/85	6900.0	238.0	1.92/1.6	0.8	0.6	250.0	44.0	125.0
T590N18TOF	1800.0	588/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	45.0	125.0
T590N16TOF	1600.0	588/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	45.0	125.0
T590N14TOF	1400.0	588/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	45.0	125.0
T590N12TOF	1200.0	588/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	45.0	125.0
T640N18TOF	1800.0	644/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	39.0	125.0

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 1800 V										
T640N16TOF	1600.0	644/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	39.0	125.0
T640N14TOF	1400.0	644/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	39.0	125.0
T640N12TOF	1200.0	644/85	8000.0	320.0	2.15/2.4	0.8	0.5	250.0	39.0	125.0
T680N14TOF	1400.0	681/85	9500.0	451.0	1.75/2.0	0.8	0.42	250.0	39.0	125.0
T680N12TOF	1200.0	681/85	9500.0	451.0	1.75/2.0	0.8	0.42	250.0	39.0	125.0
T720N18TOF	1800.0	718/85	12500.0	781.0	1.94/3.0	0.85	0.35	250.0	38.0	125.0
T720N16TOF	1600.0	718/85	12500.0	781.0	1.94/3.0	0.85	0.35	250.0	38.0	125.0
T720N14TOF	1400.0	718/85	12500.0	781.0	1.94/3.0	0.85	0.35	250.0	38.0	125.0
T720N12TOF	1200.0	718/85	12500.0	781.0	1.94/3.0	0.85	0.35	250.0	38.0	125.0
T830N18TOF	1800.0	844/85	12500.0	781.0	1.94/3.0	0.85	0.3	250.0	30.0	125.0
T830N16TOF	1600.0	844/85	12500.0	781.0	1.94/3.0	0.85	0.3	250.0	30.0	125.0
T830N14TOF	1400.0	844/85	12500.0	781.0	1.94/3.0	0.85	0.3	250.0	30.0	125.0
T830N12TOF	1200.0	844/85	12500.0	781.0	1.94/3.0	0.85	0.3	250.0	30.0	125.0
T880N18TOF	1800.0	879/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	32.0	125.0
T880N16TOF	1600.0	879/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	32.0	125.0
T880N14TOF	1400.0	879/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	32.0	125.0
T880N12TOF	1200.0	879/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	32.0	125.0
T940N18TOF	1800.0	959/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	28.0	125.0
T940N16TOF	1600.0	959/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	28.0	125.0
T940N14TOF	1200.0	959/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	28.0	125.0
T940N12TOF	1200.0	959/85	15500.0	1200.0	1.95/3.6	0.85	0.27	250.0	28.0	125.0
T1190N18TOF VT	1800.0	1190/85	22500.0	2530.0	2.05/5.4	0.9	0.19	240.0	23.0	125.0
T1190N16TOF VT	1600.0	1190/85	22500.0	2530.0	2.05/5.4	0.9	0.19	240.0	23.0	125.0
T1190N14TOF VT	1400.0	1190/85	22500.0	2530.0	2.05/5.4	0.9	0.19	240.0	23.0	125.0
T1190N12TOF VT	1200.0	1190/85	22500.0	2530.0	2.05/5.4	0.9	0.19	240.0	23.0	125.0
T1500N18TOF VT	1800.0	1500/85	33500.0	5611.0	2.10/7.0	0.9	0.15	240.0	18.4	125.0
T1500N16TOF VT	1600.0	1500/85	33500.0	5611.0	2.10/7.0	0.9	0.15	240.0	18.4	125.0
T1500N14TOF VT	1400.0	1500/85	33500.0	5611.0	2.10/7.0	0.9	0.15	240.0	18.4	125.0

Thyristor discs

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 1800 V										
T1500N12TOF VT	1200.0	1500/85	33500.0	5611.0	2.10/7.0	0.9	0.15	240.0	18.4	125.0
T2180N18TOF VT	1800.0	2180/85	36000.0	6480.0	2.05/8.0	0.9	0.106	250.0	12.5	125.0
T2180N16TOF VT	1600.0	2180/85	36000.0	6480.0	2.05/8.0	0.9	0.106	250.0	12.5	125.0
T2180N14TOF VT	1400.0	2180/85	36000.0	6480.0	2.05/8.0	0.9	0.106	250.0	12.5	125.0
T2180N12TOF VT	1200.0	2180/85	36000.0	6480.0	2.05/8.0	0.9	0.106	250.0	12.5	125.0
T3160N18TOF VT	1800.0	3160/85	57000.0	16245.0	1.37/6.0	0.85	0.082	250.0	8.5	125.0
T3160N16TOF VT	1600.0	3160/85	57000.0	16245.0	1.37/6.0	0.85	0.082	250.0	8.5	125.0
T3160N14TOF VT	1400.0	3160/85	57000.0	16245.0	1.37/6.0	0.85	0.082	250.0	8.5	125.0
T3160N12TOF VT	1200.0	3160/85	57000.0	16245.0	1.37/6.0	0.85	0.082	250.0	8.5	125.0
Ceramic Discs up to 3000 V										
T360N28TOF	2800.0	360/85	4500.0	101.0	2.88/1.1	1.1	1.6	350.0	44.0	125.0
T360N26TOF	2600.0	360/85	4500.0	101.0	2.88/1.1	1.1	1.6	350.0	44.0	125.0
T360N24TOF	2400.0	360/85	4500.0	101.0	2.88/1.1	1.1	1.6	350.0	44.0	125.0
T360N22TOF	2200.0	360/85	4500.0	101.0	2.88/1.1	1.1	1.6	350.0	44.0	125.0
T360N20TOF	2000.0	360/85	4500.0	101.0	2.88/1.1	1.1	1.6	350.0	44.0	125.0
T460N26TOF	2600.0	459/85	9000.0	405.0	2.75/2.0	1.0	0.84	300.0	45.5	125.0
T460N24TOF	2400.0	459/85	9000.0	405.0	2.75/2.0	1.0	0.84	300.0	45.5	125.0
T460N22TOF	2200.0	459/85	9000.0	405.0	2.75/2.0	1.0	0.84	300.0	45.5	125.0
T660N26TOF	2600.0	659/85	11500.0	660.0	2.53/2.85	1.0	0.5	300.0	33.0	125.0
T660N24TOF	2400.0	659/85	11500.0	660.0	2.53/2.85	1.0	0.5	300.0	33.0	125.0
T660N22TOF	2200.0	659/85	11500.0	660.0	2.53/2.85	1.0	0.5	300.0	33.0	125.0
T700N22TOF	2200.0	699/85	12200.0	744.0	2.32/2.85	0.95	0.45	300.0	32.0	125.0
T700N20TOF	2000.0	699/85	12200.0	744.0	2.32/2.85	0.95	0.45	300.0	32.0	125.0
T700N18TOF	1800.0	699/85	12200.0	744.0	2.32/2.85	0.95	0.45	300.0	32.0	125.0
T740N26TOF	2600.0	745/85	11500.0	660.0	2.53/2.85	1.0	0.5	300.0	28.0	125.0
T740N24TOF	2400.0	745/85	11500.0	660.0	2.53/2.85	1.0	0.5	300.0	28.0	125.0
T740N22TOF	2200.0	745/85	11500.0	660.0	2.53/2.85	1.0	0.5	300.0	28.0	125.0
T1040N22TOF VT	2200.0	1039/85	18500.0	1711.0	1.53/2.0	0.9	0.3	300.0	23.1	125.0

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 3000 V										
T1040N20TOF VT	2000.0	1039/85	18500.0	1711.0	1.53/2.0	0.9	0.3	300.0	23.1	125.0
T1220N28TOF VT	2800.0	1220/85	22500.0	2531.0	1.38/1.0	1.0	0.275	350.0	18.4	125.0
T1220N26TOF VT	2600.0	1220/85	22500.0	2531.0	1.38/1.0	1.0	0.275	350.0	18.4	125.0
T1220N24TOF VT	2400.0	1220/85	22500.0	2531.0	1.38/1.0	1.0	0.275	350.0	18.4	125.0
T1220N22TOF VT	2200.0	1220/85	22500.0	2531.0	1.38/1.0	1.0	0.275	350.0	18.4	125.0
T1220N20TOF VT	2000.0	1220/85	22500.0	2531.0	1.38/1.0	1.0	0.275	350.0	18.4	125.0
T1330N22TOF VT	2200.0	1329/85	23000.0	2645.0	1.13/1.0	0.9	0.234	300.0	18.4	125.0
T1330N20TOF VT	2000.0	1329/85	23000.0	2645.0	1.13/1.0	0.9	0.234	300.0	18.4	125.0
T1330N18TOF VT	1800.0	1329/85	23000.0	2645.0	1.13/1.0	0.9	0.234	300.0	18.4	125.0
T1590N28TOF VT	2800.0	1590/85	28000.0	3920.0	2.45/5.0	1.1	0.237	400.0	12.5	125.0
T1590N26TOF VT	2600.0	1590/85	28000.0	3920.0	2.45/5.0	1.1	0.237	400.0	12.5	125.0
T1590N24TOF VT	2400.0	1590/85	28000.0	3920.0	2.45/5.0	1.1	0.237	400.0	12.5	125.0
T1590N22TOF VT	2200.0	1590/85	28000.0	3920.0	2.45/5.0	1.1	0.237	400.0	12.5	125.0
T1960N22TOF VT	2200.0	1960/85	35000.0	6125.0	2.20/8.0	0.9	0.15	300.0	12.5	125.0
T1960N20TOF VT	2000.0	1960/85	35000.0	6125.0	2.20/8.0	0.9	0.15	300.0	12.5	125.0
T1960N18TOF VT	1800.0	1960/85	35000.0	6125.0	2.20/8.0	0.9	0.15	300.0	12.5	125.0
T2160N28TOF VT	2800.0	2400/85	40000.0	8000.0	2.65/8.8	1.05	0.154	400.0	8.5	125.0
T2160N26TOF VT	2600.0	2400/85	40000.0	8000.0	2.65/8.8	1.05	0.154	400.0	8.5	125.0
T2160N24TOF VT	2400.0	2400/85	40000.0	8000.0	2.65/8.8	1.05	0.154	400.0	8.5	125.0
T2160N22TOF VT	2200.0	2400/85	40000.0	8000.0	2.65/8.8	1.05	0.154	400.0	8.5	125.0
T2160N20TOF VT	2000.0	2400/85	40000.0	8000.0	2.65/8.8	1.05	0.154	400.0	8.5	125.0
T2480N28TOF VT	2800.0	2480/85	43500.0	9460.0	1.43/3.0	0.95	0.154	400.0	8.5	125.0
T2480N26TOF VT	2600.0	2480/85	43500.0	9460.0	1.43/3.0	0.95	0.154	400.0	8.5	125.0
T2480N24TOF VT	2400.0	2480/85	43500.0	9460.0	1.43/3.0	0.95	0.154	400.0	8.5	125.0
T2480N22TOF VT	2200.0	2480/85	43500.0	9460.0	1.43/3.0	0.95	0.154	400.0	8.5	125.0
T2810N22TOF VT	2200.0	2810/85	50000.0	12500.0	2.35/11.0	0.9	0.112	300.0	8.5	125.0
T2810N20TOF VT	2000.0	2810/85	50000.0	12500.0	2.35/11.0	0.9	0.112	300.0	8.5	125.0
T2810N18TOF VT	1800.0	2810/85	50000.0	12500.0	2.35/11.0	0.9	0.112	300.0	8.5	125.0

Thyristor discs

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 3000 V										
T2810N16TOF VT	1600.0	2810/85	50000.0	12500.0	2.35/11.0	0.9	0.112	300.0	8.5	125.0
T4301N28TOF	2800.0	4030/85	100000.0	41400.0	1.20/4.0	0.77	0.107	250.0	5.4	125.0
T4301N26TOF	2600.0	4030/85	100000.0	41400.0	1.20/4.0	0.77	0.107	250.0	5.4	125.0
T4301N24TOF	2400.0	4030/85	100000.0	41400.0	1.20/4.0	0.77	0.107	250.0	5.4	125.0
T4301N22TOF	2200.0	4030/85	100000.0	41400.0	1.20/4.0	0.77	0.107	250.0	5.4	125.0
T4771N28TOF PR	2800.0	4340/85	91000.0	41400.0	1.20/4.0	0.77	0.107	250.0	4.8	125.0
T4771N22TOF PR	2200.0	4340/85	91000.0	41400.0	1.20/4.0	0.77	0.107	250.0	4.8	125.0
Ceramic Discs up to 5500 V										
T730N42TOF VT	4200.0	730/85	15800.0	1250.0	3.40/3.5	1.2	0.57	400.0	21.5	120.0
T730N40TOF VT	4000.0	730/85	15800.0	1250.0	3.40/3.5	1.2	0.57	400.0	21.5	120.0
T730N38TOF VT	3800.0	730/85	15800.0	1250.0	3.40/3.5	1.2	0.57	400.0	21.5	120.0
T731N44TOH	4400.0	870/85	16000.0	1280.0	1.86/1.2	1.08	0.65	500.0	18.5	125.0
T731N42TOF	4200.0	870/85	16000.0	1280.0	1.86/1.2	1.08	0.65	500.0	18.5	125.0
T731N36TOF	3600.0	870/85	16000.0	1280.0	1.86/1.2	1.08	0.65	500.0	18.5	125.0
T860N36TOF VT	3600.0	860/85	17000.0	1445.0	3.18/3.8	1.08	0.5	400.0	21.0	125.0
T860N32TOF VT	3200.0	860/85	17000.0	1445.0	3.18/3.8	1.08	0.5	400.0	21.0	125.0
T860N30TOF VT	3000.0	860/85	17000.0	1445.0	3.18/3.8	1.08	0.5	400.0	21.0	125.0
T901N36TOF	3600.0	940/85	17000.0	1445.0	1.75/1.2	1.16	0.494	300.0	18.5	125.0
T901N35TOF	3500.0	940/85	17000.0	1445.0	1.75/1.2	1.16	0.494	300.0	18.5	125.0
T901N32TOF	3200.0	940/85	17000.0	1445.0	1.75/1.2	1.16	0.494	300.0	18.5	125.0
T930N36TOF VT	3600.0	930/85	17500.0	1530.0	2.70/3.6	1.0	0.43	500.0	21.5	125.0
T930N34TOF VT	3400.0	930/85	17500.0	1530.0	2.70/3.6	1.0	0.43	500.0	21.5	125.0
T930N32TOF VT	3200.0	930/85	17500.0	1530.0	2.70/3.6	1.0	0.43	500.0	21.5	125.0
T1401N42TOH	4200.0	1590/85	36000.0	6480.0	1.95/2.0	1.29	0.33	350.0	9.7	125.0
T1451N52TOH	5200.0	1660/85	43000.0	9250.0	1.70/2.0	0.92	0.37	450.0	9.7	125.0
T1451N48TOH	4800.0	1660/85	43000.0	9250.0	1.70/2.0	0.92	0.37	450.0	9.7	125.0
T1551N52TOH PR	5200.0	1770/85	43000.0	9250.0	1.70/2.0	0.92	0.37	450.0	9.0	125.0
T1551N48TOH	4800.0	1770/85	43000.0	9250.0	1.70/2.0	0.92	0.37	450.0	9.0	125.0

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 5500 V										
T1601N36TOF	3600.0	1900/85	44000.0	8400.0	1.50/2.0	1.0	0.25	300.0	9.0	125.0
T1601N35TOF	3500.0	1900/85	44000.0	8400.0	1.50/2.0	1.0	0.25	300.0	9.0	125.0
T1601N32TOF	3200.0	1900/85	44000.0	8400.0	1.50/2.0	1.0	0.25	300.0	9.0	125.0
T1601N28TOF	2800.0	1900/85	44000.0	8400.0	1.50/2.0	1.0	0.25	300.0	9.0	125.0
T1800N42TOF PR	4200.0	1800/85	41000.0	8405.0	1.65/2.0	0.85	0.4	900.0	8.5	125.0
T1930N38TOF VT	3800.0	2180/85	37000.0	6850.0	2.90/8.0	1.08	0.2	450.0	8.5	125.0
T1930N36TOF VT	3600.0	2180/85	37000.0	6850.0	2.90/8.0	1.08	0.2	450.0	8.5	125.0
T1930N34TOF VT	3400.0	2180/85	37000.0	6850.0	2.90/8.0	1.08	0.2	450.0	8.5	125.0
T1930N32TOF VT	3200.0	2180/85	37000.0	6850.0	2.90/8.0	1.08	0.2	450.0	8.5	125.0
T1971N44TOH	4400.0	1730/85	36000.0	6480.0	1.95/2.0	1.29	0.33	350.0	8.6	125.0
T1971N40TOH	4000.0	1730/85	36000.0	6480.0	1.95/2.0	1.29	0.33	350.0	8.6	125.0
T2001N36TOF	3600.0	2060/85	41000.0	8400.0	1.50/2.0	1.0	0.25	300.0	8.7	125.0
T2001N34TOF	3400.0	2060/85	41000.0	8400.0	1.50/2.0	1.0	0.25	300.0	8.7	125.0
T2161N52TOH	5200.0	2070/85	54000.0	14600.0	1.85/3.0	0.81	0.36	450.0	7.5	125.0
T2351N52TOH	5200.0	2250/85	54000.0	14600.0	1.85/3.0	0.81	0.36	450.0	6.5	125.0
T2351N42TOH	4200.0	2250/85	54000.0	14600.0	1.85/3.0	0.81	0.36	450.0	6.5	125.0
T2851N52TOH	5200.0	2980/85	79000.0	31000.0	1.70/4.0	0.77	0.235	600.0	5.4	125.0
T2851N48TOH	4800.0	2980/85	79000.0	31000.0	1.70/4.0	0.77	0.235	600.0	5.4	125.0
T2851N42TOH	4200.0	2980/85	79000.0	31000.0	1.70/4.0	0.77	0.235	600.0	5.4	125.0
T3401N36TOF	3600.0	3560/85	91000.0	37850.0	1.40/4.0	0.82	0.145	300.0	5.4	125.0
T3401N32TOF	3200.0	3560/85	91000.0	37850.0	1.40/4.0	0.82	0.145	300.0	5.4	125.0
T3401N31TOF	3100.0	3560/85	91000.0	37850.0	1.40/4.0	0.82	0.145	300.0	5.4	125.0
T3441N52TOH	5200.0	3200/85	79000.0	31000.0	1.70/4.0	0.77	0.235	600.0	4.8	125.0
T3801N36TOF VT	3600.0	3830/85	87000.0	37850.0	1.40/4.0	0.82	0.145	300.0	4.8	125.0
T4021N52TOH	5200.0	3880/85	100000.0	50000.0	1.80/6.0	0.93	0.145	550.0	4.5	125.0
T4003N52TOH PR	5200.0	3400/85	100000.0	50000.0	1.80/6.0	0.93	0.145	550.0	4.8	120.0
T4003NH52TOH	5200.0	3400/85	100000.0	50000.0	1.80/6.0	0.93	0.145	550.0	4.8	120.0

Thyristor discs

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 10000 V										
T201N70TOH PR	7000.0	245/85	4200.0	88.0	3.4/0.5	1.29	4.22	600.0	40.0	125.0
T280N65TOF	6500.0	280/85	5800.0	115.0	2.75/0.5	1.35	2.8	1000.0	43.0	125.0
T501N70TOH	7000.0	640/85	13000.0	845.0	2.65/1.0	1.3	1.35	600.0	17.0	125.0
T533N80TOH PR	8000.0	540/85	10500.0	550.0	2.75/1.0	1.26	1.47	650.0	20.0	120.0
T570N65TOF	6500.0	540/85	10500.0	442.0	2.75/1.0	1.35	1.4	1000.0	21.0	125.0
T600N95TOH PR	9500.0	590/85	12800.0	820.0	2.7/1.0	1.25	1.4	900.0	19.0	125.0
T1060N65TOF PR	6500.0	1053/85	22500.0	2530.0	2.43/1.5	1.35	0.72	1000.0	11.0	125.0
T1081N70TOH	7000.0	1300/85	34000.0	5780.0	2.7/2.0	1.18	0.759	600.0	8.6	125.0
T1081N65TOH	6500.0	1300/85	34000.0	5780.0	2.7/2.0	1.18	0.759	600.0	8.6	125.0
T1081N60TOH	6000.0	1300/85	34000.0	5780.0	2.7/2.0	1.18	0.759	600.0	8.6	125.0
T1201N70TOH	7000.0	1200/85	34000.0	5780.0	2.7/2.0	1.18	0.759	600.0	9.7	125.0
T1503N80TOH PR	8000.0	1770/85	55000.0	15125.0	3.00/4.0	1.24	0.44	550.0	6.3	120.0
T1503N75TOH	7500.0	1770/85	55000.0	15125.0	3.00/4.0	1.24	0.44	550.0	6.3	120.0
T1503NH80TOH	8000.0	1770/85	55000.0	15125.0	3.00/4.0	1.24	0.44	550.0	6.3	120.0
T1620N65TOF PR	6500.0	1613/85	32000.0	5120.0	3.3/4.5	1.35	0.43	1000.0	8.1	125.0
T1651N70TOH PR	7000.0	1670/85	50000.0	11500.0	2.65/3.0	1.22	0.49	600.0	7.5	125.0
T1851N70TOH	7000.0	1830/85	48000.0	11500.0	2.65/3.0	1.22	0.49	600.0	6.5	125.0
T1851N65TOH PR	6500.0	1830/85	48000.0	11500.0	2.65/3.0	1.22	0.49	600.0	6.5	125.0
T1851N60TOH	6000.0	1830/85	48000.0	11500.0	2.65/3.0	1.22	0.49	600.0	6.5	125.0
T1901N80TOH	8000.0	2100/85	65000.0	21100.0	3.0/4.0	1.24	0.44	550.0	5.4	125.0
T1901N75TOH	7500.0	2100/85	65000.0	21100.0	3.0/4.0	1.24	0.44	550.0	5.4	125.0
T1901N70TOH	7000.0	2100/85	65000.0	21100.0	3.0/4.0	1.24	0.44	550.0	5.4	125.0
T2251N80TOH	8000.0	2260/85	65000.0	21100.0	3.0/4.0	1.24	0.44	550.0	4.8	125.0
T2251N70TOH	7000.0	2260/85	65000.0	21100.0	3.0/4.0	1.24	0.44	550.0	4.8	125.0

Product	V_{DRM} / V_{RRM} [V]	I_{TAVM}/T_C [A/°C] (@180° el sin)	I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_T/I_T [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	t_q [µs]	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max
Ceramic Discs up to 10000 V										
T2563NH75TOH	7500.0	2300/85	90000.0	40500.0	2.95/5.0	1.2	0.35	550.0	4.8	120.0
T2563N80TOH PR	8000.0	2300/85	90000.0	40500.0	2.95/5.0	1.2	0.35	550.0	4.8	120.0
T2563NH80TOH	8000.0	2300/85	90000.0	40500.0	2.95/5.0	1.2	0.35	550.0	4.8	120.0
T2871N80TOH	8000.0	2620/85	90000.0	40500.0	2.95/5.0	1.27	0.336	550.0	4.5	125.0
T2871N75TOH	7500.0	2620/85	90000.0	40500.0	2.95/5.0	1.27	0.336	550.0	4.5	125.0
T2871N70TOH PR	7000.0	2620/85	90000.0	40500.0	2.95/5.0	1.27	0.336	550.0	4.5	125.0
T3011N80TOH	8000.0	2800/85	90000.0	40500.0	2.95/5.0	1.27	0.336	550.0	4.0	125.0

Discs

Diode / thyristor studs

Product	V_{DRM} / V_{RRM} [V]	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	I_{FAVM}/T_C / I_{TAVM}/T_C [A/°C] (@180° el sin)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	T_{vj} [°C] max	Housing	Configuration
Phase Control Thyristors									
T160N18BOF	1800.0	3400.0	160/85	58.0	1.08	1.53	125.0	SW27 M12	Phase Control Thyristors
T221N18BOF	1800.0	5700.0	221/85	163.0	1.1	0.75	125.0	SW41 M24	Phase Control Thyristors
T345N18EOF	1800.0	6900.0	345/85	238.0	0.8	0.7	125.0	FL54 Flansch flange	Phase Control Thyristors
Fast Rectifier diodes									
D56S45C	4500.0	1350.0	56/85	9.1	1.64	8.0	125.0	SW27 M12	Fast Rectifier Diodes
D56U45C	4500.0	1200.0	56/73	7.2	1.64	8.0	125.0	SW27 M12	Fast Rectifier Diodes
Rectifier Diodes									
D121K20B	2000.0	2400.0	120/130	480.2	0.7	0.62	180.0	SW27 M12	Rectifier Diodes
D121K18B	1800.0	2400.0	120/130	480.2	0.7	0.62	180.0	SW27 M12	Rectifier Diodes
D255K06B	600.0	4000.0	255/75	106.0	0.65	0.85	180.0	SW27 M13	Rectifier Diodes
D255K04B	400.0	4000.0	255/75	106.0	0.65	0.85	180.0	SW27 M13	Rectifier Diodes
D255N06B	600.0	4600.0	255/110	106.0	0.65	0.85	180.0	SW27 M12	Rectifier Diodes
D255N04B	400.0	4600.0	255/110	106.0	0.65	0.85	180.0	SW27 M12	Rectifier Diodes
D255N02B	200.0	4600.0	255/110	106.0	0.65	0.85	180.0	SW27 M12	Rectifier Diodes
D121N20B	2000.0	2600.0	120/130	33.8	0.72	1.9	180.0	SW27 M12	Rectifier Diodes
D121N18B	1600.0	2600.0	120/130	33.8	0.72	1.9	180.0	SW27 M12	Rectifier Diodes
D121N16B	1600.0	2600.0	120/130	33.8	0.72	1.9	180.0	SW27 M12	Rectifier Diodes
D121N12B	1200.0	2600.0	120/130	33.8	0.72	1.9	180.0	SW27 M12	Rectifier Diodes
D251K20B	2000.0	4700.0	250/102	110.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251K18B	1800.0	4700.0	250/102	110.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251K14B	1400.0	4700.0	250/102	110.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251K12B	1200.0	4700.0	250/102	110.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251N20B	2000.0	5300.0	250/130	140.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251N18B	1800.0	5300.0	250/130	140.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251N16B	1600.0	5300.0	250/130	140.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251N14B	1400.0	5300.0	250/130	140.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes
D251N12B	1200.0	5300.0	250/130	140.5	0.8	0.85	180.0	SW27 M12	Rectifier Diodes

Product	V_{DRM} / V_{RRM} [V]	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	I_{FAVM}/T_C / I_{TAVM}/T_C [A/°C] (@180° el sin)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	T_{vj} [°C] max	Housing	Configuration
Rectifier Diodes									
D400K16B	1600.0	9800.0	400/130	480.2	0.7	0.62	180.0	SW41 M24	Rectifier Diodes
D400N22B VF	2200.0	9800.0	400/130	480.2	0.7	0.62	180.0	SW41 M24	Rectifier Diodes
D400N20B	2000.0	9800.0	400/130	480.2	0.7	0.62	180.0	SW41 M24	Rectifier Diodes
D400N18B VF	1800.0	9800.0	400/130	480.2	0.7	0.62	180.0	SW41 M24	Rectifier Diodes
D400N16B	1600.0	9800.0	400/130	480.2	0.7	0.62	180.0	SW41 M24	Rectifier Diodes
D400N12B	1200.0	9800.0	400/130	480.2	0.7	0.62	180.0	SW41 M24	Rectifier Diodes
D452N18E VF	1800.0	10800.0	450/130	583.0	0.77	0.48	180.0	FL54 Flansch flange	Rectifier Diodes
D452N16E	1600.0	10800.0	450/130	583.0	0.77	0.48	180.0	FL54 Flansch flange	Rectifier Diodes
D452N14E	1400.0	10800.0	450/130	583.0	0.77	0.48	180.0	FL54 Flansch flange	Rectifier Diodes
D452N12E VF	1200.0	10800.0	450/130	583.0	0.77	0.48	180.0	FL54 Flansch flange	Rectifier Diodes
D475N36B	3600.0	10900.0	475/100	594.0	0.77	0.61	160.0	SW41 M24	Rectifier Diodes

Welding diodes

Product	V_{RRM} [V]	I_{FAVM}/T_C [A/°C] (@180° el sin)	I_{FSM} [A] (@10ms, Tvj max)	$\int I^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_0/I_F [V/kA] (@Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	R_{thJC} [K/kW] (@180° el sin) max	T_{vj} [°C] max	Clamping force [kn] min	Clamping force [kn] max
Welding diodes											
38DN06	600.0	3885/120	32300.0	5200.0	0.99/4.5	0.66	0.06	12.4	180.0	20.0	30.0
46DN06	600.0	5100/118	52000.0	13500.0	0.99/4.5	0.7	0.05	9.35	180.0	30.0	45.0
56DN06B01	600.0	8400/110	70000.0	24500.0	0.99/4.5	0.66	0.04	5.8	180.0	40.0	60.0
65DN06	600.0	8470/98	95000.0	45000.0	0.99/4.5	0.7	0.03	4.7	180.0	55.0	80.0

Clamping Units for Discs

Product	Clamping force max [kn]	Diameter [mm]	Height [mm]	Creeping distance min [mm]
Clamping Units for Discs				
V50-14.45M	4.5	42.0	14.0	11.0
V50-14.45N	4.5	42.0	14.0	11.0
V50-14.60M	6.0	42.0	14.0	11.0
V50-14.60N	6.0	42.0	14.0	11.0
V61-14.80M	8.0	48.0	14.0	11.0
V61-14.80N	8.0	48.0	14.0	11.0
V72-14.150M	15.0	58.0	14.0	11.0
V72-26.80M	8.0	58.0	26.0	23.0
V72-26.120M	12.0	58.0	26.0	23.0
V72-26.150M	15.0	75.0	26.0	23.0
V89-26.170N	17.0	75.0	26.0	26.0
V89-26.300N	30.0	75.0	26.0	26.0
V89-26.400N	40.0	75.0	26.0	26.0
V100-35.200N	20.0	75.0	26.0	26.0

Gate leads

Product	Type	Connector
Gate leads		
GATELEAD HIGH POWER	T120.26K, T120.35K, T150.26K, T150.35K, T172.26K	6.3 x 0.8/4.8 x 0.8
GATELEAD MEDIUM POWER	T42.14K0, T48.14K0, T58.14K0, T58.26K0, T75.26K0, T100.26K0, T111.26K0	4.8 x 0.5/2.8 x 0.5

Laser Diode & Light Fiber for LTT

Group	Product	Product Group	Type
Laser Diode & Light Fiber for LTT			
Laser Diodes	LASER DIODE SPL-PL90 A	Laserdiode for LTT	T76.35L, T150.40L, T172.40L
Light Fiber	LIGHT FIBER LWL R10-LR50	Light Fiber for LTT	T76.35L
Light Fiber	LIGHT FIBER LWL R10-LR87	Light Fiber for LTT	T150.40L, T172.40L

Thyristor / diode modules

Infineon® Eco & Power Block

We offer a broad range of Power Block modules which are designed and assembled in pressure contact technology for highest reliability. The modules contains thyristor and diode pellets in a voltage range of 1600 V to 4400 V and a current range of 60 A up to 1100 A.

All Power Block modules are also available with pre-applied silicone-free Thermal Interface Material (TIM). The optimized pattern of this reversible phase change material results in a stable thermal performance over life time which increases reliability and lifetime of your system.

With the release of the 34 mm and 50 mm Eco Block modules in solder bond technology Infineon Technologies Bipolar complemented the existing product portfolio of bipolar modules. Solder bond modules are ideal for applications where the high robustness of pressure contact technology is not necessarily a must.

Infineon® Power Start

Main benefit of the new designed Power Start modules for soft starters up to 300 kW is their high current capability in a compact design (LxWxH 134x55x100mm) and double side cooling for lowthermal resistance. Another big advantage in comparison to existing soft starters is that one foot-print fits all current classes.

Thyristor / diode modules

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Thyristor Modules - Baseplate = 20 mm - Pressure contact										
TT61N16KOF	1600.0	60/85	1400.0	9.8	0.8	3.4	150.0	0.52	125.0	Power Block 20 mm
TT61N14KOF	1400.0	60/85	1400.0	9.8	0.8	3.4	150.0	0.52	125.0	Power Block 20 mm
TT61N12KOF	1200.0	60/85	1400.0	9.8	0.8	3.4	150.0	0.52	125.0	Power Block 20 mm
TT92N16KOF	1600.0	92/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
TT92N14KOF	1400.0	92/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
TT92N12KOF	1200.0	92/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
TT104N14KOF	1400.0	104/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
TT104N12KOF	1200.0	104/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
Thyristor Modules - Baseplate = 20 mm - Solder solder										
TT60N16SOF	1600.0	55/85	1200.0	7.2	1.0	4.8	140.0	0.49	130.0	Power Block 20 mm
TT120N16SOF	1600.0	119/85	1900.0	18.05	0.9	3.35	140.0	0.2	130.0	Power Block 20 mm
Thyristor Modules - Baseplate = 34 mm - Pressure contact										
TT122N22KOF	2200.0	122/85	2950.0	43.5	1.0	2.15	100.0	0.2	125.0	Power Block 34 mm
TT140N22KOF	2200.0	140/85	3200.0	51.2	0.9	1.75	150.0	0.19	125.0	Power Block 34 mm
TT140N18KOF	1800.0	140/85	3200.0	51.2	0.9	1.75	150.0	0.19	125.0	Power Block 34 mm
TT142N16KOF	1600.0	142/85	4100.0	84.0	0.9	1.1	150.0	0.22	125.0	Power Block 34 mm
TT142N14KOF	1400.0	142/85	4100.0	84.0	0.9	1.1	150.0	0.22	125.0	Power Block 34 mm
TT142N12KOF	1200.0	142/85	4100.0	84.0	0.9	1.1	150.0	0.22	125.0	Power Block 34 mm
TT162N16KOF	1600.0	162/85	4400.0	97.0	0.85	0.95	150.0	0.2	125.0	Power Block 34 mm
TT162N14KOF	1400.0	162/85	4400.0	97.0	0.85	0.95	150.0	0.2	125.0	Power Block 34 mm
TT162N12KOF	1200.0	162/85	4400.0	97.0	0.85	0.95	150.0	0.2	125.0	Power Block 34 mm
TT180N16KOF	1600.0	180/85	4100.0	84.0	0.85	0.9	150.0	0.2	130.0	Power Block 34 mm
TT180N12KOF	1200.0	180/85	4100.0	84.0	0.85	0.9	150.0	0.2	130.0	Power Block 34 mm
Thyristor Modules - Baseplate = 34 mm - Solder bond										
TT140N16SOF	1600.0	140/85	4000.0	80.0	1.0	1.6	200.0	0.19	125.0	Power Block 34 mm
TT160N16SOF	1600.0	160/85	5200.0	101.3	1.1	0.99	100.0	0.145	125.0	Power Block 34 mm
TT175N16SOF	1600.0	175/85	5000.0	125.0	0.83	1.3	200.0	0.164	125.0	Power Block 34 mm
TT190N16SOF	1600.0	190/85	5200.0	101.3	0.85	0.9	100.0	0.145	125.0	Power Block 34 mm

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Thyristor Modules - Baseplate = 50 mm - Pressure contact										
TT150N26KOF	2600.0	150/85	4000.0	80.0	1.2	2.3	60.0	0.13	125.0	Power Block 50 mm
TT150N22KOF	2200.0	150/85	4000.0	80.0	1.2	2.3	60.0	0.13	125.0	Power Block 50 mm
TT170N18KOF	1800.0	170/85	4600.0	106.0	0.95	1.0	150.0	0.17	125.0	Power Block 50 mm
TT210N18KOF	1800.0	210/85	5800.0	168.0	1.0	0.85	150.0	0.13	125.0	Power Block 50 mm
TT210N16KOF	1600.0	210/85	5800.0	168.0	1.0	0.85	150.0	0.13	125.0	Power Block 50 mm
TT210N14KOF	1400.0	210/85	5800.0	168.0	1.0	0.85	150.0	0.13	125.0	Power Block 50 mm
TT210N12KOF	1200.0	210/85	5800.0	168.0	1.0	0.85	150.0	0.13	125.0	Power Block 50 mm
TT215N22KOF	1800.0	215/85	6300.0	198.0	0.95	0.92	100.0	0.13	125.0	Power Block 50 mm
TT215N20KOF	2000.0	215/85	6300.0	198.0	0.95	0.92	100.0	0.13	125.0	Power Block 50 mm
TT215N18KOF	1800.0	215/85	6300.0	198.0	0.95	0.92	100.0	0.13	125.0	Power Block 50 mm
TT250N18KOF	1800.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TT250N16KOF	1600.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TT250N16KOF TIM	1600.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50mm
TT250N14KOF	1400.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TT250N12KOF	1200.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TT251N18KOF	1800.0	250/85	8000.0	320.0	0.8	0.7	250.0	0.13	125.0	Power Block 50 mm
TT251N16KOF	1600.0	250/85	8000.0	320.0	0.8	0.7	250.0	0.13	125.0	Power Block 50 mm
TT251N14KOF	1400.0	250/85	8000.0	320.0	0.8	0.7	250.0	0.13	125.0	Power Block 50 mm
TT251N12KOF	1200.0	250/85	8000.0	320.0	0.8	0.7	250.0	0.13	125.0	Power Block 50 mm
TT260N22KOF	2200.0	260/85	8000.0	320.0	0.85	0.64	250.0	0.12	125.0	Power Block 50 mm
TT270N16KOF	1600.0	270/92	9000.0	400.0	0.8	0.58	250.0	0.12	125.0	Power Block 50 mm
TT285N16KOF	1600.0	285/92	8000.0	781.0	0.8	0.5	250.0	0.112	130.0	Power Block 50 mm
TT305N16KOF	1600.0	305/85	9000.0	551.0	0.8	0.58	250.0	0.12	130.0	Power Block 50 mm
TT330N16KOF	1600.0	330/85	8000.0	500.0	0.8	0.5	250.0	0.112	130.0	Power Block 50 mm
TT330N16KOF TIM	1600.0	330/85	8000.0	500.0	0.8	0.5	250.0	0.112	130.0	Power Block 50 mm
TT330N12KOF	1200.0	330/85	8000.0	500.0	0.8	0.5	250.0	0.112	130.0	Power Block 50 mm
TT330N14KOF	1400.0	330/85	8000.0	500.0	0.8	0.5	250.0	0.112	130.0	Power Block 50 mm

Thyristor / diode modules

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Thyristor Modules - Baseplate = 50 mm - Solder bond										
TT280N16SOF	1600.0	280/85	9000.0	304.0	0.9	0.82	100.0	0.11	130.0	Power Block 50 mm
TT320N16SOF	1600.0	320/85	8200.0	335.0	0.77	0.58	100.0	0.11	130.0	Power Block 50 mm
Thyristor Modules - Baseplate = 60 mm - Pressure contact										
TT240N38KOF	3800.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 60 mm
TT240N36KOF	3600.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 60 mm
TT240N32KOF	3200.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 60 mm
TT240N28KOF	2800.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 60 mm
TT310N26KOF	2600.0	310/85	9000.0	405.0	1.0	0.86	120.0	0.078	125.0	Power Block 60 mm
TT310N24KOF	2400.0	310/85	9000.0	405.0	1.0	0.86	120.0	0.078	125.0	Power Block 60 mm
TT310N22KOF	2200.0	310/85	9000.0	405.0	1.0	0.86	120.0	0.078	125.0	Power Block 60 mm
TT310N20KOF	2000.0	310/85	9000.0	405.0	1.0	0.86	120.0	0.078	125.0	Power Block 60 mm
TT400N26KOF	2600.0	400/85	11000.0	605.0	1.0	0.5	150.0	0.065	125.0	Power Block 60 mm
TT400N24KOF	2400.0	400/85	11000.0	605.0	1.0	0.5	150.0	0.065	125.0	Power Block 60 mm
TT425N18KOF	1800.0	425/85	12500.0	1051.0	0.9	0.35	120.0	0.065	125.0	Power Block 60 mm
TT425N16KOF	1600.0	425/85	12500.0	1051.0	0.9	0.35	120.0	0.065	125.0	Power Block 60 mm
TT425N14KOF	1400.0	425/85	12500.0	1051.0	0.9	0.35	120.0	0.065	125.0	Power Block 60 mm
TT425N12KOF	1200.0	425/85	12500.0	1051.0	0.9	0.35	120.0	0.065	125.0	Power Block 60 mm
TT430N22KOF	2200.0	430/85	12000.0	1051.0	0.95	0.45	150.0	0.065	125.0	Power Block 60 mm
TT500N18KOF	1800.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TT500N16KOF	1600.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TT500N16KOF TIM	1600.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TT500N14KOF	1400.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TT500N12KOF	1200.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TT520N22KOF	2200.0	520/85	18000.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TT570N16KOF	1600.0	570/87	14000.0	1531.0	0.8	0.23	200.0	0.058	125.0	Power Block 60 mm
TT600N16KOF	1600.0	600/85	21000.0	1531.0	0.8	0.23	200.0	0.058	125.0	Power Block 60 mm

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Thyristor/Diode Modules - Baseplate = 20 mm - Pressure contact										
TD61N16KOF	1600.0	60/85	1400.0	9.8	0.8	3.4	150.0	0.52	125.0	Power Block 20 mm
TD61N14KOF	1400.0	60/85	1400.0	9.8	0.8	3.4	150.0	0.52	125.0	Power Block 20 mm
TD61N12KOF	1200.0	60/85	1400.0	9.8	0.8	3.4	150.0	0.52	125.0	Power Block 20 mm
TD92N16KOF	1600.0	92/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
TD92N14KOF	1400.0	92/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
TD92N12KOF	1200.0	92/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
TD104N14KOF	1400.0	104/85	1800.0	16.2	0.85	2.15	150.0	0.37	140.0	Power Block 20 mm
TD104N12KOF	1200.0	104/85	1800.0	16.2	0.85	2.15	150.0	0.37	140.0	Power Block 20 mm
Thyristor/Diode Modules - Baseplate = 20 mm - Solder bond										
TD60N16SOF	1600.0	55/85	1200.0	7.2	1.0	4.8	140.0	0.49	130.0	Power Block 20 mm
TD120N16SOF	1600.0	119/85	1900.0	18.05	0.9	3.35	140.0	0.2	130.0	Power Block 20 mm
Thyristor/Diode Modules - Baseplate = 34 mm - Pressure contact										
TD122N24KOF	2400.0	122/85	2950.0	43.5	1.0	2.15	100.0	0.2	125.0	Power Block 34 mm
TD122N22KOF	2200.0	122/85	2950.0	43.5	1.0	2.15	100.0	0.2	125.0	Power Block 34 mm
TD140N22KOF	2200.0	140/85	3200.0	51.2	0.9	1.75	150.0	0.19	125.0	Power Block 34 mm
TD140N18KOF	1800.0	140/85	3200.0	51.2	0.9	1.75	150.0	0.19	125.0	Power Block 34 mm
TD142N16KOF	1600.0	142/85	4100.0	84.0	0.9	1.1	150.0	0.22	125.0	Power Block 34 mm
TD142N12KOF	1200.0	142/85	4100.0	84.0	0.9	1.1	150.0	0.22	125.0	Power Block 34 mm
TD162N16KOF	1600.0	162/85	4400.0	97.0	0.85	0.95	150.0	0.2	125.0	Power Block 34 mm
TD162N14KOF	1400.0	162/85	4400.0	97.0	0.85	0.95	150.0	0.2	125.0	Power Block 34 mm
TD162N12KOF	1200.0	162/85	4400.0	97.0	0.85	0.95	150.0	0.2	125.0	Power Block 34 mm
TD180N16KOF	1600.0	180/85	4100.0	84.0	0.85	0.9	150.0	0.2	130.0	Power Block 34 mm
Thyristor/Diode Modules - Baseplate = 34 mm - Solder bond										
TD140N16SOF	1600.0	140/85	4000.0	80.0	1.0	1.6	200.0	0.19	125.0	Power Block 34 mm
TD160N16SOF	1600.0	160/85	5200.0	101.3	1.1	0.99	100.0	0.145	125.0	Power Block 34 mm
TD175N16SOF	1600.0	175/85	5000.0	125.0	0.83	1.3	200.0	0.164	125.0	Power Block 34 mm
TD190N16SOF	1600.0	190/85	5200.0	101.3	0.85	0.9	100.0	0.145	125.0	Power Block 34 mm

Thyristor / diode modules

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Thyristor/Diode Modules - Baseplate = 50 mm - Pressure contact										
TD150N26KOF	2600.0	150/85	4000.0	80.0	1.2	2.3	60.0	0.13	125.0	Power Block 50 mm
TD150N24KOF	2400.0	150/85	4000.0	80.0	1.2	2.3	60.0	0.13	125.0	Power Block 50 mm
TD170N16KOF	1600.0	170/85	4600.0	106.0	0.95	1.0	150.0	0.17	125.0	Power Block 50 mm
TD170N12KOF	1200.0	170/85	4600.0	106.0	0.95	1.0	150.0	0.17	125.0	Power Block 50 mm
TD210N18KOF	1800.0	210/85	5800.0	168.0	1.0	1.0	150.0	0.13	125.0	Power Block 50 mm
TD210N16KOF	1600.0	210/85	5800.0	168.0	1.0	1.0	150.0	0.13	125.0	Power Block 50 mm
TD210N14KOF	1400.0	210/85	5800.0	168.0	1.0	1.0	150.0	0.13	125.0	Power Block 50 mm
TD210N12KOF	1200.0	210/85	5800.0	168.0	1.0	1.0	150.0	0.13	125.0	Power Block 50 mm
TD215N22KOF	2200.0	215/85	6300.0	198.0	0.95	0.92	100.0	0.13	125.0	Power Block 50 mm
TD250N18KOF	1800.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TD250N18/25KOF	1800.0	250/85	7000.0	320.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TD250N16KOF	1600.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TD250N16KOF TIM	1600.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TD250N14KOF	1400.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TD250N12KOF	1200.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
TD251N18KOF	1800.0	250/85	8000.0	320.0	0.8	0.7	250.0	0.13	125.0	Power Block 50 mm
TD251N16KOF	1600.0	250/85	8000.0	320.0	0.8	0.7	250.0	0.13	125.0	Power Block 50 mm
TD251N14KOF	1400.0	250/85	8000.0	320.0	0.8	0.7	250.0	0.13	125.0	Power Block 50 mm
TD260N22KOF	2200.0	260/85	8000.0	320.0	0.85	0.64	250.0	0.12	125.0	Power Block 50 mm
TD270N16KOF	1600.0	270/85	9000.0	400.0	0.8	0.58	250.0	0.12	125.0	Power Block 50 mm
TD285N16KOF	1600.0	285/92	8000.0	500.0	0.8	0.5	250.0	0.056	130.0	Power Block 50 mm
TD330N16KOF	1600.0	330/85	8000.0	500.0	0.8	0.5	250.0	0.112	130.0	Power Block 50 mm
TD330N16KOF TIM	1600.0	330/85	8000.0	500.0	0.8	0.5	250.0	0.112	130.0	Power Block 50 mm
Thyristor/Diode Modules - Baseplate = 50 mm - Solder bond										
TD280N16SOF	1600.0	280/85	9000.0	304.0	0.9	0.82	100.0	0.11	130.0	Power Block 50 mm
TD320N16SOF	1600.0	320/85	9500.0	335.0	0.77	0.58	100.0	0.11	130.0	Power Block 50 mm

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Thyristor/Diode Modules - Baseplate = 60 mm - Pressure contact										
TD240N36KOF	3600.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 60 mm
TD240N32KOF	3200.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 60 mm
TD310N26KOF	2600.0	310/85	9000.0	405.0	1.0	0.86	120.0	0.078	125.0	Power Block 60 mm
TD310N22KOF	2200.0	310/85	9000.0	405.0	1.0	0.86	120.0	0.078	125.0	Power Block 60 mm
TD310N20KOF	2000.0	310/85	9000.0	405.0	1.0	0.86	120.0	0.078	125.0	Power Block 60 mm
TD400N26KOF	2600.0	400/85	11000.0	605.0	1.0	0.5	150.0	0.065	125.0	Power Block 60 mm
TD425N18KOF	1800.0	425/85	12500.0	781.0	0.9	0.35	120.0	0.065	125.0	Power Block 60 mm
TD425N16KOF	1600.0	425/85	12500.0	781.0	0.9	0.35	120.0	0.065	125.0	Power Block 60 mm
TD430N22KOF	2200.0	430/85	12000.0	720.0	0.95	0.45	150.0	0.065	125.0	Power Block 60 mm
TD500N18KOF	1800.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TD500N16KOF	1600.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TD500N16KOF TIM	1600.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TD500N12KOF	1200.0	500/85	14500.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TD520N22KOF	2200.0	520/85	18000.0	1051.0	0.85	0.35	200.0	0.058	125.0	Power Block 60 mm
TD570N16KOF	1600.0	570/87	14000.0	980.0	0.8	0.23	200.0	0.058	125.0	Power Block 60 mm
TD600N16KOF	1600.0	600/85	21000.0	1531.0	0.8	0.23	200.0	0.058	125.0	Power Block 60 mm
TD600N16KOF TIM	1600.0	600/85	21000.0	1531.0	0.8	0.23	200.0	0.058	125.0	Power Block 60 mm

Thyristor / diode modules

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Single Thyristor Modules - Baseplate = 50 mm - Pressure contact										
TZ150N26KOF	2600.0	150/85	4000.0	101.0	1.2	2.3	60.0	0.13	125.0	Power Block 50 mm
TZ240N36KOF	3600.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 50 mm
TZ240N34KOF	3400.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 50 mm
TZ240N30KOF	3000.0	240/85	5500.0	151.0	1.17	1.7	100.0	0.078	125.0	Power Block 50 mm
TZ310N26KOF	2600.0	310/85	8000.0	320.0	1.0	0.86	120.0	0.078	125.0	Power Block 50 mm
TZ310N24KOF	2400.0	310/85	8000.0	320.0	1.0	0.86	120.0	0.078	125.0	Power Block 50 mm
TZ310N22KOF	2200.0	310/85	8000.0	320.0	1.0	0.86	120.0	0.078	125.0	Power Block 50 mm
TZ310N20KOF	2000.0	310/85	8000.0	320.0	1.0	0.86	120.0	0.078	125.0	Power Block 50 mm
TZ400N26KOF	2600.0	400/85	11000.0	605.0	1.0	0.5	150.0	0.065	125.0	Power Block 50 mm
TZ400N24KOF	2400.0	400/85	11000.0	605.0	1.0	0.5	150.0	0.065	125.0	Power Block 50 mm
TZ400N20KOF	2000.0	400/85	11000.0	605.0	1.0	0.5	150.0	0.065	125.0	Power Block 50 mm
TZ425N18KOF	1800.0	425/85	12500.0	781.0	0.9	0.3	120.0	0.078	125.0	Power Block 50 mm
TZ425N16KOF	1600.0	425/85	12500.0	781.0	0.9	0.3	120.0	0.078	125.0	Power Block 50 mm
TZ425N14KOF	1400.0	425/85	12500.0	781.0	0.9	0.3	120.0	0.078	125.0	Power Block 50 mm
TZ425N12KOF	1200.0	425/85	12500.0	781.0	0.9	0.3	120.0	0.078	125.0	Power Block 50 mm
TZ430N22KOF	2200.0	430/85	12000.0	720.0	0.95	0.45	150.0	0.065	125.0	Power Block 50 mm
TZ500N18KOF	1800.0	500/85	14500.0	1051.0	0.9	0.27	200.0	0.065	125.0	Power Block 50 mm
TZ500N16KOF	1600.0	500/85	14500.0	1051.0	0.9	0.27	200.0	0.065	125.0	Power Block 50 mm
TZ500N14KOF	1400.0	500/85	14500.0	1051.0	0.9	0.27	200.0	0.065	125.0	Power Block 50 mm
TZ500N12KOF	1200.0	500/85	14500.0	1051.0	0.9	0.27	200.0	0.065	125.0	Power Block 50 mm
TZ600N16KOF	1600.0	600/85	14000.0	980.0	0.9	0.27	200.0	0.065	125.0	Power Block 50 mm
TZ600N14KOF	1600.0	600/85	14000.0	980.0	0.9	0.27	200.0	0.065	125.0	Power Block 50 mm
TZ600N12KOF	1200.0	600/85	14000.0	980.0	0.9	0.27	200.0	0.065	125.0	Power Block 50 mm

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Single Thyristor Modules - Baseplate = 70 mm - Pressure contact										
TZ530N32KOF	3200.0	530/85	20000.0	2000.0	1.05	0.49	80.0	0.045	125.0	Power Block 70 mm
TZ530N36KOF	3600.0	530/85	20000.0	2000.0	1.05	0.49	80.0	0.045	125.0	Power Block 70 mm
TZ630N22KOF	2200.0	630/85	23000.0	2650.0	0.95	0.37	150.0	0.042	125.0	Power Block 70 mm
TZ630N24KOF	2400.0	630/85	23000.0	2650.0	0.95	0.37	150.0	0.042	125.0	Power Block 70 mm
TZ630N28KOF	2800.0	630/85	23000.0	2650.0	0.95	0.37	150.0	0.042	125.0	Power Block 70 mm
TZ740N20KOF	2000.0	740/85	26500.0	3500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ740N22KOF	2200.0	740/85	26500.0	3500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ740N22KOF TIM	2200.0	819/85	30000.0	3500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ800N12KOF	1200.0	800/85	30000.0	4500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ800N14KOF	1400.0	800/85	30000.0	4500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ800N16KOF	1600.0	800/85	30000.0	4500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ800N16KOF TIM	1600.0	800/85	30000.0	4500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ800N18KOF	1800.0	800/85	30000.0	4500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ800N18KOF TIM	1800.0	800/85	30000.0	4500.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ810N22KOF	2200.0	819/85	35000.0	6125.0	0.82	0.17	200.0	0.042	125.0	Power Block 70 mm
TZ810N22KOF TIM	2200.0	819/85	35000.0	6125.0	0.82	0.17	200.0	0.42	125.0	Power Block 70 mm
TZ860N16KOF	1600.0	860/85	46000.0	8000.0	0.8	0.145	200.0	0.042	125.0	Power Block 70 mm
TZ860N16KOF TIM	1600.0	860/85	46000.0	8000.0	0.8	1.45	200.0	0.042	125.0	Power Block 70 mm
Diode/Thyristor Modules - Baseplate = 20 mm - Pressure contact										
DT61N16KOF	1600.0	60/85	1400.0	9.8	0.8	3.4	150.0	0.52	125.0	Power Block 20 mm
DT92N16KOF	1600.0	92/85	1800.0	16.2	0.85	2.15	150.0	0.37	130.0	Power Block 20 mm
DT142N12KOF	1200.0	142/85	4100.0	84.0	0.9	1.1	150.0	0.22	125.0	Power Block 34 mm
DT170N20/14KOF	1400.0	170/85	4600.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm
DT250N16KOF	1600.0	250/85	7000.0	245.0	0.8	0.7	150.0	0.13	125.0	Power Block 50 mm

Thyristor / diode modules

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Rectifier Diode Modules - Baseplate = 20 mm - Pressure contact										
DD46S12K	1200.0	45/85	850.0	3.6	0.9	3.9	-	0.64	125.0	Power Block 20 mm
DD61S14K	1400.0	61/100	1600.0	12.8	1.0	2.2	-	0.61	150.0	Power Block 20 mm
DD81S14K	1400.0	81/100	1900.0	18.1	1.0	1.7	-	0.47	150.0	Power Block 20 mm
DD82S10K	1000.0	81/100	1900.0	18.1	1.0	1.7	-	0.47	150.0	Power Block 20 mm
DD89N18K	1800.0	89/100	2400.0	28.8	0.75	2.3	-	0.45	150.0	Power Block 20 mm
DD89N16K	1600.0	89/100	2400.0	28.8	0.75	2.3	-	0.45	150.0	Power Block 20 mm
DD89N14K	1400.0	89/100	2400.0	28.8	0.75	2.3	-	0.45	150.0	Power Block 20 mm
DD89N12K	1200.0	89/100	2400.0	28.8	0.75	2.3	-	0.45	150.0	Power Block 20 mm
DD98N25K	2500.0	98/100	2000.0	20.0	0.82	2.0	-	0.39	150.0	Power Block 20 mm
DD98N24K	2400.0	98/100	2000.0	20.0	0.82	2.0	-	0.39	150.0	Power Block 20 mm
DD98N22K	2200.0	98/100	2000.0	20.0	0.82	2.0	-	0.39	150.0	Power Block 20 mm
DD98N20K	2000.0	98/100	2000.0	20.0	0.82	2.0	-	0.39	150.0	Power Block 20 mm
DD104N18K	1800.0	104/100	2500.0	31.25	0.7	2.1	-	0.39	150.0	Power Block 20 mm
DD104N16K	1600.0	104/100	2500.0	31.25	0.7	2.1	-	0.39	150.0	Power Block 20 mm
DD104N14K	1400.0	104/100	2500.0	31.25	0.7	2.1	-	0.39	150.0	Power Block 20 mm
DD104N12K	1200.0	104/100	2500.0	31.25	0.7	2.1	-	0.39	150.0	Power Block 20 mm
ND89N16K	1600.0	89/100	2400.0	28.8	0.75	2.3	-	0.45	150.0	Power Block 20 mm
ND89N12K	1200.0	89/100	2400.0	28.8	0.75	2.3	-	0.45	150.0	Power Block 20 mm
ND104N18K	1800.0	104/100	2500.0	31.25	0.7	2.1	-	0.39	150.0	Power Block 20 mm
ND104N16K	1600.0	104/100	2500.0	31.25	0.7	2.1	-	0.39	150.0	Power Block 20 mm
ND104N12K	1200.0	104/100	2500.0	31.25	0.7	2.1	-	0.39	150.0	Power Block 20 mm
Rectifier Diode Modules - Baseplate = 20 mm - Solder solder										
DD100N16S	1600.0	134/85	2000.0	20.0	0.87	2.45	-	0.2	130.0	Power Block 20 mm

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Rectifier Diode Modules - Baseplate = 34 mm - Pressure contact										
DD160N22K	2200.0	160/100	4600.0	105.8	0.8	1.0	-	0.26	150.0	Power Block 34 mm
DD171N18K	1800.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
DD171N16K	1600.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
DD171N14K	1400.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
DD171N12K	1200.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
ND171N18K	1800.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
ND171N16K	1600.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
ND171N14K	1400.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
ND171N12K	1200.0	170/100	5600.0	157.0	0.75	0.8	-	0.26	150.0	Power Block 34 mm
Rectifier Diode Modules - Baseplate = 34 mm - Solder bond										
DD170N16S	1600.0	165/85	5500.0	151.25	0.75	1.05	-	0.18	135.0	Power Block 34 mm
DD180N22S	2200.0	192/85	5750.0	131.6	0.85	0.95	-	0.14	125.0	Power Block 34 mm
DD180N20S	2000.0	192/85	5750.0	131.6	0.85	0.95	-	0.14	125.0	Power Block 34 mm
DD180N18S	1800.0	192/85	5750.0	131.6	0.85	0.95	-	0.14	125.0	Power Block 34 mm
DD180N16S	1600.0	192/85	5750.0	131.6	0.85	0.95	-	0.14	125.0	Power Block 34 mm
Rectifier Diode Modules - Baseplate = 50 mm - Pressure contact										
DD230S26K	2600.0	230/100	7500.0	281.0	1.0	0.8	-	0.15	150.0	Power Block 50 mm
DD241S14K	1400.0	240/100	7500.0	281.0	1.1	0.5	-	0.15	150.0	Power Block 50 mm
DD242S10K	1400.0	240/100	7500.0	281.0	1.1	0.5	-	0.15	150.0	Power Block 50 mm
ND241S14K	1000.0	240/100	7500.0	281.0	1.1	0.5	-	0.15	150.0	Power Block 50 mm
ND242S10K	1000.0	240/100	7500.0	281.0	1.1	0.5	-	0.15	150.0	Power Block 50 mm
DD175N34K	3400.0	175/100	4000.0	80.0	0.9	1.8	-	0.17	150.0	Power Block 50 mm
DD175N32K	3200.0	175/100	4000.0	80.0	0.9	1.8	-	0.17	150.0	Power Block 50 mm
DD175N30K	3000.0	175/100	4000.0	80.0	0.9	1.8	-	0.17	150.0	Power Block 50 mm
DD231N26K	2600.0	231/100	6400.0	205.0	0.8	0.84	-	0.17	150.0	Power Block 50 mm
DD231N24K	2400.0	231/100	6400.0	205.0	0.8	0.84	-	0.17	150.0	Power Block 50 mm
DD231N22K	2200.0	231/100	6400.0	205.0	0.8	0.84	-	0.17	150.0	Power Block 50 mm
DD260N18K	1800.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm

Thyristor / diode modules

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Rectifier Diode Modules - Baseplate = 50 mm - Pressure contact										
DD260N16K	1600.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
DD260N14K	1400.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
DD260N12K	1200.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
DD261N22K	2200.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
DD261N20K	2000.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
DD285N04K	400.0	285/100	8300.0	344.0	0.75	0.4	-	0.17	150.0	Power Block 50 mm
DD285N02K	400.0	285/100	8300.0	344.0	0.75	0.4	-	0.17	150.0	Power Block 50 mm
DD350N18K	1800.0	350/100	11000.0	605.0	0.75	0.4	-	0.13	150.0	Power Block 50 mm
DD350N16K	1600.0	350/100	11000.0	605.0	0.75	0.4	-	0.13	150.0	Power Block 50 mm
DD350N14K	1400.0	350/100	11000.0	605.0	0.75	0.4	-	0.13	150.0	Power Block 50 mm
DD350N12K	1200.0	350/100	11000.0	605.0	0.75	0.4	-	0.13	150.0	Power Block 50 mm
DD360N22K	2200.0	360/100	13000.0	550.0	0.75	0.4	-	0.125	150.0	Power Block 50 mm
DD380N16K	1600.0	380/100	11500.0	660.0	0.75	0.32	-	0.125	150.0	Power Block 50 mm
ND260N16K	1600.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
ND260N14K	1400.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
ND260N12K	1200.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
ND261N26K	2600.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
ND261N22K	2200.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
ND261N20K	2000.0	260/100	8300.0	344.0	0.7	0.68	-	0.17	150.0	Power Block 50 mm
ND350N16K	1600.0	350/100	11000.0	605.0	0.75	0.4	-	0.13	150.0	Power Block 50 mm
ND350N12K	1200.0	350/100	11000.0	605.0	0.75	0.4	-	0.13	150.0	Power Block 50 mm
DZ435N40K	4000.0	435/100	12000.0	720.0	0.84	0.6	-	0.078	150.0	Power Block 50 mm
DZ540N26K	2600.0	540/100	14000.0	980.0	0.78	0.31	-	0.078	150.0	Power Block 50 mm
DZ540N22K	2200.0	540/100	14000.0	980.0	0.78	0.31	-	0.078	150.0	Power Block 50 mm
DZ540N20K	2000.0	540/100	14000.0	980.0	0.78	0.31	-	0.078	150.0	Power Block 50 mm
DZ600N18K	1800.0	600/100	19000.0	1805.0	0.75	0.22	-	0.078	150.0	Power Block 50 mm
DZ600N16K	1600.0	600/100	19000.0	1805.0	0.75	0.22	-	0.078	150.0	Power Block 50 mm
DZ600N14K	1400.0	600/100	19000.0	1805.0	0.75	0.22	-	0.078	150.0	Power Block 50 mm
DZ600N12K	1200.0	600/100	19000.0	1805.0	0.75	0.22	-	0.078	150.0	Power Block 50 mm

Product	V_{DRM} / V_{RRM} [V]	I_{FAVM}/T_C / I_{TAVM}/ T_C [A/°C] (@180° el sin)	I_{FSM} / I_{TSM} [A] (@10ms, Tvj max)	$\int i^2dt$ [$A^2s \cdot 10^3$] (@10ms, Tvj max)	V_{T0} [V] (@Tvj max) max	r_T [mΩ] (@Tvj max) max	$(di_T/dt)_{cr}$ [A/µs] (@DIN IEC 747- 6)	R_{thJC} [K/W] (@180° el sin) max	T_{vj} [°C] max	Housing
Rectifier Diode Modules - Baseplate = 60 mm - Pressure contact										
DD435N40K	4000.0	435/100	12000.0	720.0	0.84	0.6	-	0.078	150.0	Power Block 60 mm
DD435N36K	3600.0	435/100	12000.0	720.0	0.84	0.6	-	0.078	150.0	Power Block 60 mm
DD435N34K	3400.0	435/100	12000.0	720.0	0.84	0.6	-	0.078	150.0	Power Block 60 mm
DD435N28K	2800.0	435/100	12000.0	720.0	0.84	0.6	-	0.078	150.0	Power Block 60 mm
DD540N26K	2600.0	540/100	14000.0	980.0	0.78	0.31	-	0.078	150.0	Power Block 60 mm
DD540N22K	2200.0	540/100	14000.0	980.0	0.78	0.31	-	0.078	150.0	Power Block 60 mm
DD600N18K	1800.0	600/100	19000.0	1800.0	0.75	0.215	-	0.078	150.0	Power Block 60 mm
DD600N16K	1600.0	600/100	19000.0	1800.0	0.75	0.215	-	0.078	150.0	Power Block 60 mm
DD600N14K	1400.0	600/100	19000.0	1800.0	0.75	0.215	-	0.078	150.0	Power Block 60 mm
DD600N12K	1200.0	600/100	19000.0	1800.0	0.75	0.215	-	0.078	150.0	Power Block 60 mm
DD700N22K	2200.0	700/100	21000.0	1805.0	0.78	0.19	-	0.065	150.0	Power Block 60 mm
DD710N16K	1600.0	710/100	26000.0	2420.0	0.75	0.15	-	0.065	150.0	Power Block 60 mm
Rectifier Diode Modules - Baseplate = 70 mm - Pressure contact										
DZ950N44K	4400.0	950/100	29000.0	4205.0	0.85	0.28	-	0.042	150.0	Power Block 70 mm
DZ950N36K	3600.0	950/100	29000.0	4205.0	0.85	0.28	-	0.042	150.0	Power Block 70 mm
DZ1070N28K	2800.0	1070/100	35000.0	6125.0	0.8	0.17	-	0.045	160.0	Power Block 70 mm
DZ1070N26K	2600.0	1070/100	35000.0	6125.0	0.8	0.17	-	0.045	160.0	Power Block 70 mm
DZ1070N22K	2200.0	1100/100	41000.0	6125.0	0.75	0.073	-	0.045	150.0	Power Block 70 mm
DZ1070N18K	1800.0	1100/100	41000.0	6125.0	0.75	0.073	-	0.045	150.0	Power Block 70 mm
DZ1100N22K	2200.0	1100/100	48000.0	8000.0	0.75	0.073	-	0.048	150.0	Power Block 70 mm
Rectifier Diode Modules - Baseplate = 50 mm - Solder bond										
DD340N20S	2000.0	330/100	10000.0	385.0	0.81	0.3	-	0.086	130.0	Eco Block 50 mm
DD340N18S	1800.0	330/100	10000.0	385.0	0.81	0.3	-	0.086	130.0	Eco Block 50 mm
DD340N16S	1600.0	330/100	10000.0	385.0	0.81	0.3	-	0.086	130.0	Eco Block 50 mm

Gate leads

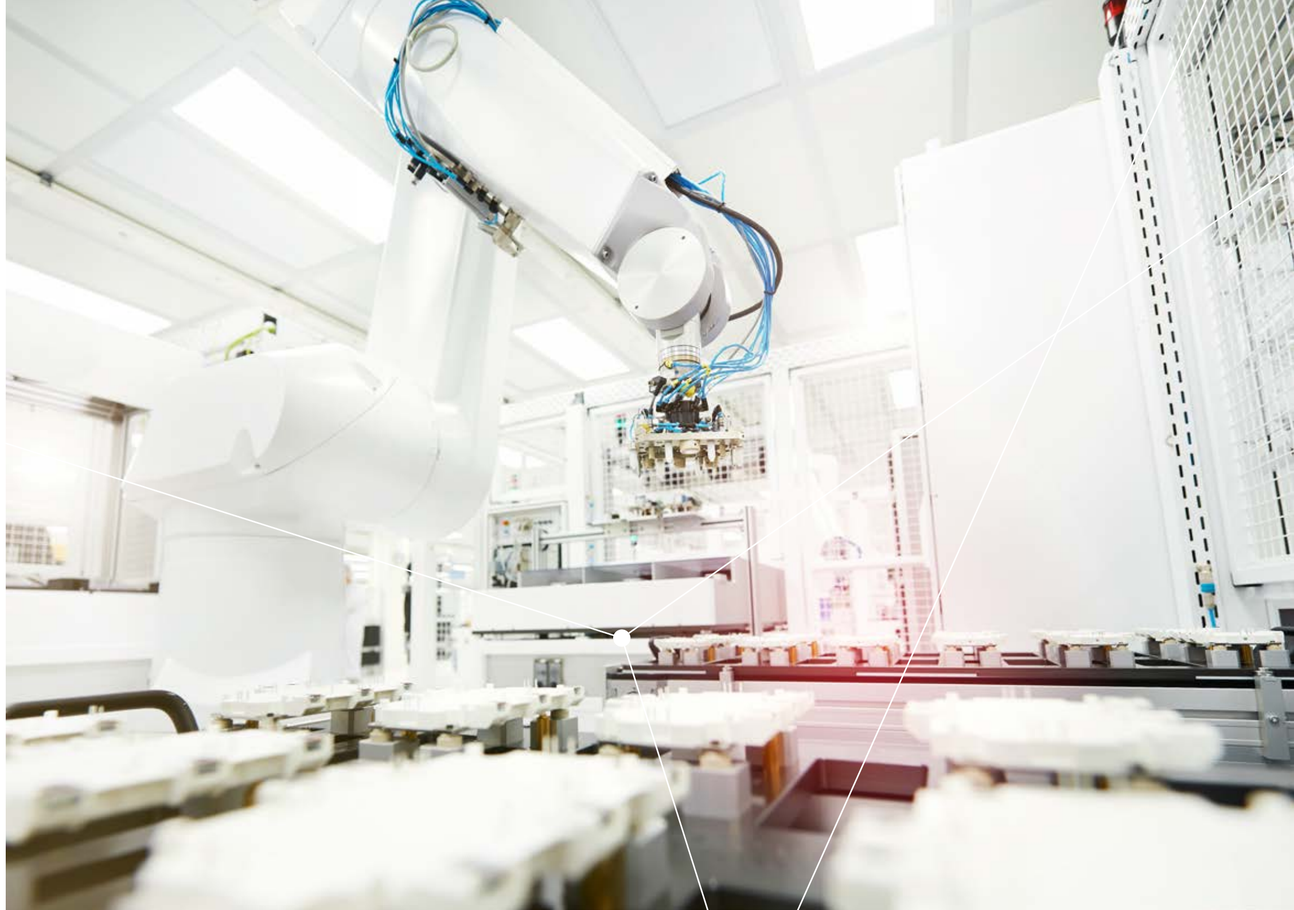
Product	Type	Terminal#	Terminal desr.
Gate leads			
GATELEAD PB34-70 G2K2	PB34, PB50, PB70 (Single), PB60	6/7, 5/4, 6/7	G2/K2
GATELEAD PB20 G1K1	PB20	5/4	G1/K1
GATELEAD PB34-60 G1K1	PB34, PB50, PB50 (Single), PB60	5/4	G1/K1, G2/K2, G1/K1
GATELEAD PB20 G2K2	PB20	6/7	G2/K2

Bridge rectifier and AC-switches

Product	Product Status	V_{DRM}/ V_{RRM} [V]	I_{RMSM} [A]	$I_{(FSM)}$ max [A]	Housing	Configuration
Diode Bridges						
DDB6U85N16L	active and preferred	1600.0 V	85.0 A	550.0 A	IsoPACK™	Diode Bridges
DDB6U145N16L	active and preferred	1600.0 V	145.0 A	1000.0 A	IsoPACK™	Diode Bridges
DDB6U205N16L	active and preferred	1600.0 V	205.0 A	1375.0 A	IsoPACK™	Diode Bridges
DDB6U215N16L	active and preferred	1600.0 V	215.0 A	1850.0 A	IsoPACK™	Diode Bridges
DDB6U144N16R	active and preferred	1600.0 V	144.0 A	1000.0 A	EconoBRIDGE™	Diode Bridges
Diode Bridges with Brake Chopper						
DDB6U180N16RR_B11	active and preferred	1600.0 V	180.0 A	1600.0 A	EconoBRIDGE™	Diode Bridges with Brake Chopper
Diode Bridges with Brake Chopper and NTC						
DDB6U134N16RR	active and preferred	1600.0 V	134.0 A	550.0 A	EconoBRIDGE™	Diode Bridges with Brake Chopper and NTC
DDB6U104N16RR	active and preferred	1600.0 V	104.0 A	550.0 A	EconoBRIDGE™	Diode Bridges
DDB6U75N16W1R	active	1600.0 V	75.0 A	605.0 A	EasyBRIDGE 1	Diode Bridges with Brake Chopper and NTC
DDB6U75N16W1R_B11	active	1600.0 V	75.0 A	605.0 A	EasyBRIDGE 1	Diode Bridges with Brake Chopper and NTC
Fully Controlled AC-Switches						
TTW3C85N16LOF	active and preferred	1600.0 V	85.0 A	620.0 A	IsoPACK™	Fully Controlled AC-Switches

Bridge rectifier and AC-switches

Product	Product Status	V_{DRM} / V_{RRM} [V]	I_{RMSM} [A]	$I_{(FSM)}$ max [A]	Housing	Configuration
Fully Controlled Bridges						
TTB6C135N16LOF	active and preferred	1600.0 V	135.0 A	870.0 A	IsoPACK™	Fully Controlled Bridges
TTB6C165N16LOF	active and preferred	1600.0 V	165.0 A	1050.0 A	IsoPACK™	Fully Controlled Bridges
Half Controlled Bridges						
TDB6HK95N16LOF	active and preferred	1600.0 V	95.0 A	620.0 A	IsoPACK™	Half Controlled Bridges
Half Controlled Bridges with Brake Chopper and NTC						
TDB6HK124N16RR	active and preferred	1600.0 V	124.0 A	550.0 A	EconoBRIDGE™	Half Controlled Bridges with Brake Chopper and NTC
Half Controlled Bridges with Brake Chopper						
TDB6HK180N16RR	active and preferred	1600.0 V	180.0 A	1400.0 A	EconoBRIDGE™	Half Controlled Bridges with Brake Chopper
TDB6HK180N16RR_B11	active and preferred	1600.0 V	180.0 A	1400.0 A	EconoBRIDGE™	Half Controlled Bridges with Brake Chopper
Half Controlled Bridges with NTC						
TDB6HK240N16P	active and preferred	1600.0 V	240.0 A	1800.0 A	EconoBRIDGE™	Half Controlled Bridges with NTC
TDB6HK360N16P	active and preferred	1600.0 V	360.0 A	2300.0 A	EconoBRIDGE™	Half Controlled Bridges with NTC



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