

## Final datasheet

### EasyPACK™ module with CoolSiC™ Trench MOSFET and PressFIT / NTC

#### Features

- Electrical features
  - $V_{DSS} = 2000 \text{ V}$
  - $I_{DN} = 160 \text{ A} / I_{DRM} = 320 \text{ A}$
  - Overload operation up to  $175^\circ\text{C}$
  - Suitable Infineon gate drivers can be found under <https://www.infineon.com/gdfinder>
- Mechanical features
  - Integrated NTC temperature sensor
  - PressFIT contact technology



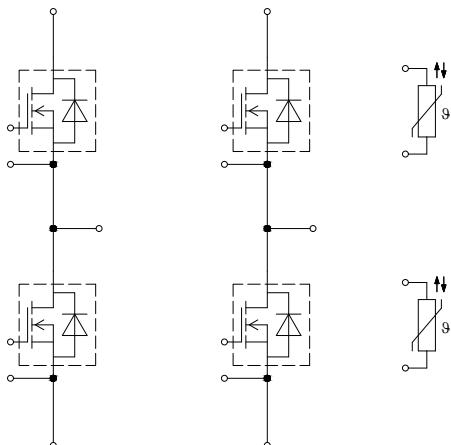
#### Potential applications

- EV charging
- Energy storage systems (ESS)
- Solar applications
- DC/DC converter

#### Product validation

- Qualified for industrial applications according to the relevant tests of IEC 60747, 60749 and 60068

#### Description



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## 1 Package

**Table 1 Insulation coordination**

Parameter	Symbol	Note or test condition	Values	Unit
Isolation test voltage	$V_{ISOL}$	RMS, $f = 50$ Hz, $t = 1$ min	3.2	kV
Isolation test voltage NTC	$V_{ISOL(NTC)}$	RMS, $f = 50$ Hz, $t = 1$ min	3.2	kV
Internal isolation		basic insulation (class 1, IEC 61140)	$Al_2O_3$	
Comparative tracking index	$CTI$		> 400	
Relative thermal index (electrical)	$RTI$	housing	140	°C

**Table 2 Characteristic values**

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Stray inductance module	$L_{SCE}$			22		nH
Module lead resistance, terminals - chip	$R_{CC'EE'}$	$T_H = 25$ °C, per switch		1.4		mΩ
Storage temperature	$T_{stg}$		-40		125	°C
Mounting torque for module mounting	$M$	- Mounting according to valid application note	M5, Screw	1.3	1.5	Nm
Weight	$G$			78		g

**Note:** The current under continuous operation is limited to 25A rms per connector pin.

## 2 MOSFET, T1-T4

**Table 3 Maximum rated values**

Parameter	Symbol	Note or test condition	Values	Unit
Drain-source voltage	$V_{DSS}$	$T_{vj} = 25$ °C	2000	V
Implemented drain current	$I_{DN}$		160	A
Continuous DC drain current	$I_{DDC}$	$T_{vj} = 175$ °C, $V_{GS} = 18$ V	135	A
Repetitive peak drain current	$I_{DRM}$	verified by design, $t_p$ limited by $T_{vjmax}$	320	A
Gate-source voltage, max. transient voltage	$V_{GS}$	$D < 0.01$	-10/23	V
Gate-source voltage, max. static voltage	$V_{GS}$		-7/20	V

**Table 4 Recommended values**

Parameter	Symbol	Note or test condition	Values	Unit
On-state gate voltage	$V_{GS(on)}$		15...18	V
Off-state gate voltage	$V_{GS(off)}$		-5...-2	V

**Table 5 Characteristic values**

Parameter	Symbol	Note or test condition	Values			Unit
			Min.	Typ.	Max.	
Drain-source on-resistance	$R_{DS(on)}$	$I_D = 160 \text{ A}$	$V_{GS} = 18 \text{ V}, T_{vj} = 25^\circ\text{C}$		5.1	8.1
			$V_{GS} = 18 \text{ V}, T_{vj} = 125^\circ\text{C}$		10.9	
			$V_{GS} = 18 \text{ V}, T_{vj} = 175^\circ\text{C}$		15.4	
			$V_{GS} = 15 \text{ V}, T_{vj} = 25^\circ\text{C}$		5.6	
Gate threshold voltage	$V_{GS(th)}$	$I_D = 112 \text{ mA}, V_{DS} = V_{GS}, (\text{tested after } 1\text{ms pulse at } V_{GS} = +20 \text{ V}), T_{vj} = 25^\circ\text{C}$	3.45	4.3	5.15	V
Total gate charge	$Q_G$	$V_{DD} = 1200 \text{ V}, V_{GS} = -3 \text{ V}, T_{vj} = 25^\circ\text{C}$		0.78		$\mu\text{C}$
Internal gate resistor	$R_{Gint}$	$T_{vj} = 25^\circ\text{C}$		1.8		$\Omega$
Input capacitance	$C_{ISS}$	$f = 100 \text{ kHz}, V_{DS} = 1200 \text{ V}, V_{GS} = 0 \text{ V}$		24.1		$\text{nF}$
Output capacitance	$C_{OSS}$	$f = 100 \text{ kHz}, V_{DS} = 1200 \text{ V}, V_{GS} = 0 \text{ V}$	$T_{vj} = 25^\circ\text{C}$	0.563		$\text{nF}$
Reverse transfer capacitance	$C_{rss}$	$f = 100 \text{ kHz}, V_{DS} = 1200 \text{ V}, V_{GS} = 0 \text{ V}$	$T_{vj} = 25^\circ\text{C}$	0.041		$\text{nF}$
$C_{OSS}$ stored energy	$E_{OSS}$	$V_{DS} = 1200 \text{ V}, V_{GS} = -3/18 \text{ V}, T_{vj} = 25^\circ\text{C}$		508		$\mu\text{J}$
Drain-source leakage current	$I_{DSS}$	$V_{DS} = 2000 \text{ V}, V_{GS} = -3 \text{ V}$	$T_{vj} = 25^\circ\text{C}$	0.04	378	$\mu\text{A}$
Gate-source leakage current	$I_{GSS}$	$V_{DS} = 0 \text{ V}, T_{vj} = 25^\circ\text{C}$	$V_{GS} = 20 \text{ V}$		400	$\text{nA}$
Turn-on delay time (inductive load)	$t_{d(on)}$	$I_D = 160 \text{ A}, R_{Gon} = 4.3 \Omega, V_{DD} = 1200 \text{ V}, V_{GS} = -3/18 \text{ V}, t_{dead} = 1000 \text{ ns}, 0.1 \text{ V}_{GS} \text{ to } 0.1 I_D$	$T_{vj} = 25^\circ\text{C}$		70	ns
			$T_{vj} = 125^\circ\text{C}$		69	
			$T_{vj} = 175^\circ\text{C}$		69	
Rise time (inductive load)	$t_r$	$I_D = 160 \text{ A}, R_{Gon} = 4.3 \Omega, V_{DD} = 1200 \text{ V}, V_{GS} = -3/18 \text{ V}, t_{dead} = 1000 \text{ ns}, 0.1 I_D \text{ to } 0.9 I_D$	$T_{vj} = 25^\circ\text{C}$		29	ns
			$T_{vj} = 125^\circ\text{C}$		29	
			$T_{vj} = 175^\circ\text{C}$		29	

(table continues...)

**Table 5 (continued) Characteristic values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>	<b>Values</b>			<b>Unit</b>
			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	
Turn-off delay time (inductive load)	$t_{d\ off}$	$I_D = 160\ A, R_{Goff} = 0.51\ \Omega, V_{DD} = 1200\ V, V_{GS} = -3/18\ V, 0.9\ V_{GS}\ to\ 0.9\ I_D$	$T_{vj} = 25\ ^\circ C$		107	ns
			$T_{vj} = 125\ ^\circ C$		113	
			$T_{vj} = 175\ ^\circ C$		119	
Fall time (inductive load)	$t_f$	$I_D = 160\ A, R_{Goff} = 0.51\ \Omega, V_{DD} = 1200\ V, V_{GS} = -3/18\ V, 0.9\ I_D\ to\ 0.1\ I_D$	$T_{vj} = 25\ ^\circ C$		33	ns
			$T_{vj} = 125\ ^\circ C$		36	
			$T_{vj} = 175\ ^\circ C$		38	
Turn-on energy loss per pulse	$E_{on}$	$I_D = 160\ A, V_{DD} = 1200\ V, L_\sigma = 15\ nH, V_{GS} = -3/18\ V, R_{Gon} = 4.3\ \Omega, di/dt = 4.5\ kA/\mu s\ (T_{vj} = 175\ ^\circ C), t_{dead} = 1000\ ns$	$T_{vj} = 25\ ^\circ C$		10.8	mJ
			$T_{vj} = 125\ ^\circ C$		12.5	
			$T_{vj} = 175\ ^\circ C$		15.1	
Turn-on energy loss per pulse, optimized	$E_{on,o}$	$I_D = 160\ A, V_{DD} = 1200\ V, L_\sigma = 15\ nH, V_{GS} = -3/18\ V, R_{Gon,o} = 2.4\ \Omega, di/dt = 6\ kA/\mu s\ (T_{vj} = 175\ ^\circ C), t_{dead} = 100\ ns$	$T_{vj} = 25\ ^\circ C$		7.6	mJ
			$T_{vj} = 125\ ^\circ C$		7.9	
			$T_{vj} = 175\ ^\circ C$		8.7	
Turn-off energy loss per pulse	$E_{off}$	$I_D = 160\ A, V_{DD} = 1200\ V, L_\sigma = 15\ nH, V_{GS} = -3/18\ V, R_{Goff} = 0.51\ \Omega, dv/dt = 38.5\ kV/\mu s\ (T_{vj} = 175\ ^\circ C)$	$T_{vj} = 25\ ^\circ C$		2.7	mJ
			$T_{vj} = 125\ ^\circ C$		3	
			$T_{vj} = 175\ ^\circ C$		3.1	
Thermal resistance, junction to heat sink	$R_{thJH}$	per MOSFET, $\lambda_{grease} = 3.3\ W/(m\cdot K)$		0.238		K/W
Temperature under switching conditions	$T_{vj\ op}$		-40		175	°C

**Note:** The selection of positive and negative gate-source voltages impacts losses and the long-term behavior of the MOSFET and body diode. The design guidelines described in Application Notes AN 2018-09 and AN 2021-13 must be considered to ensure sound operation of the device over the planned lifetime.

$T_{vj\ op} > 150\ ^\circ C$  is allowed for operation at overload conditions. For detailed specifications, please refer to AN 2018-14.

### 3 Body diode (MOSFET, T1-T4)

**Table 6 Maximum rated values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>		<b>Values</b>	<b>Unit</b>
DC body diode forward current	$I_{SD}$	$T_{vj} = 175\ ^\circ C, V_{GS} = -3\ V$	$T_H = 65\ ^\circ C$	100	A

**Table 7 Characteristic values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>	<b>Values</b>			<b>Unit</b>
			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	
Forward voltage	$V_{SD}$	$I_{SD} = 160 \text{ A}, V_{GS} = -3 \text{ V}$	$T_{vj} = 25^\circ\text{C}$		4.4	5.95
			$T_{vj} = 125^\circ\text{C}$		4	
			$T_{vj} = 175^\circ\text{C}$		3.85	
Peak reverse recovery current	$I_{rrm}$	$I_{SD} = 160 \text{ A}, di_s/dt = 4.5 \text{ kA}/\mu\text{s}, V_{DD} = 1200 \text{ V}, V_{GS} = -3 \text{ V}, t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25^\circ\text{C}$		88	
			$T_{vj} = 125^\circ\text{C}$		118	
			$T_{vj} = 175^\circ\text{C}$		162	
Recovered charge	$Q_{rr}$	$I_{SD} = 160 \text{ A}, di_s/dt = 4.5 \text{ kA}/\mu\text{s}, V_{DD} = 1200 \text{ V}, V_{GS} = -3 \text{ V}, t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25^\circ\text{C}$		4.3	
			$T_{vj} = 125^\circ\text{C}$		5.9	
			$T_{vj} = 175^\circ\text{C}$		8.8	
Reverse recovery energy	$E_{rec}$	$I_{SD} = 160 \text{ A}, di_s/dt = 4.5 \text{ kA}/\mu\text{s} (T_{vj} = 175^\circ\text{C}), V_{DD} = 1200 \text{ V}, V_{GS} = -3 \text{ V}, t_{dead} = 1000 \text{ ns}$	$T_{vj} = 25^\circ\text{C}$		3.5	
			$T_{vj} = 125^\circ\text{C}$		4.3	
			$T_{vj} = 175^\circ\text{C}$		5.4	
Reverse recovery energy, optimized	$E_{rec,o}$	$I_{SD} = 160 \text{ A}, di_s/dt = 6 \text{ kA}/\mu\text{s} (T_{vj} = 175^\circ\text{C}), V_{DD} = 1200 \text{ V}, V_{GS} = -3 \text{ V}, t_{dead} = 100 \text{ ns}$	$T_{vj} = 25^\circ\text{C}$		2.5	
			$T_{vj} = 125^\circ\text{C}$		2.8	
			$T_{vj} = 175^\circ\text{C}$		4.1	

## 4 NTC-Thermistor

**Table 8 Characteristic values**

<b>Parameter</b>	<b>Symbol</b>	<b>Note or test condition</b>	<b>Values</b>			<b>Unit</b>
			<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	
Rated resistance	$R_{25}$	$T_{NTC} = 25^\circ\text{C}$		5		$\text{k}\Omega$
Deviation of $R_{100}$	$\Delta R/R$	$T_{NTC} = 100^\circ\text{C}, R_{100} = 493 \Omega$	-5		5	%
Power dissipation	$P_{25}$	$T_{NTC} = 25^\circ\text{C}$			20	$\text{mW}$
B-value	$B_{25/50}$	$R_2 = R_{25} \exp[B_{25/50}(1/T_2 - 1/(298,15 \text{ K}))]$		3375		K
B-value	$B_{25/80}$	$R_2 = R_{25} \exp[B_{25/80}(1/T_2 - 1/(298,15 \text{ K}))]$		3411		K
B-value	$B_{25/100}$	$R_2 = R_{25} \exp[B_{25/100}(1/T_2 - 1/(298,15 \text{ K}))]$		3433		K

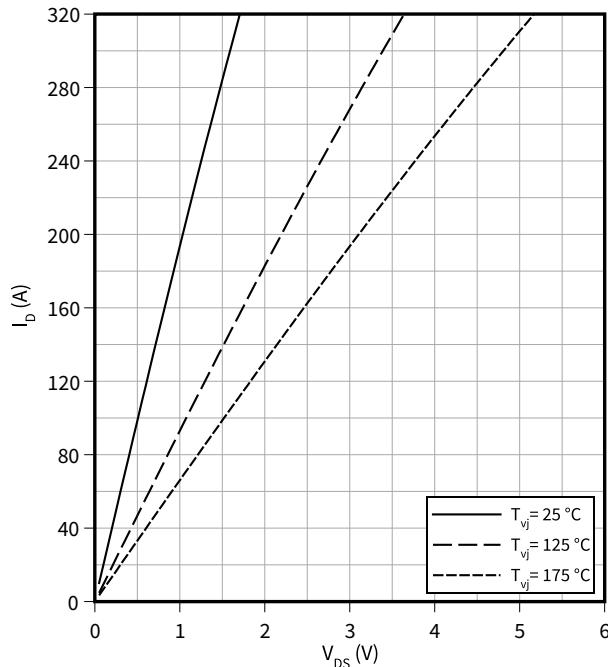
**Note:** For an analytical description of the NTC characteristics please refer to AN2009-10, chapter 4

## 5 Characteristics diagrams

### Output characteristic (typical), MOSFET, T1-T4

$I_D = f(V_{DS})$

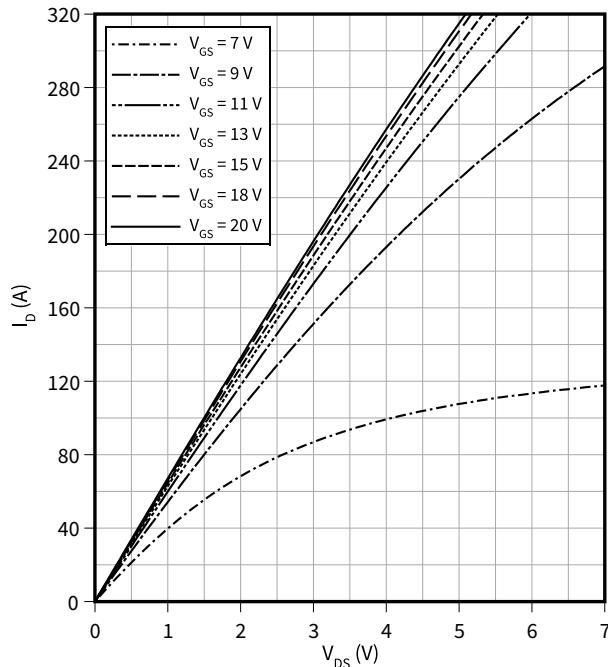
$V_{GS} = 18 \text{ V}$



### Output characteristic field (typical), MOSFET, T1-T4

$I_D = f(V_{DS})$

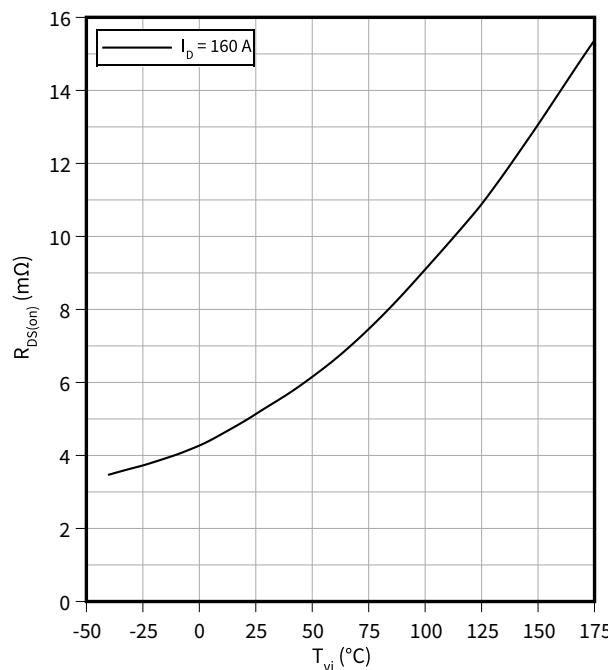
$T_{vj} = 175^\circ\text{C}$



### Drain source on-resistance (typical), MOSFET, T1-T4

$R_{DS(on)} = f(T_{vj})$

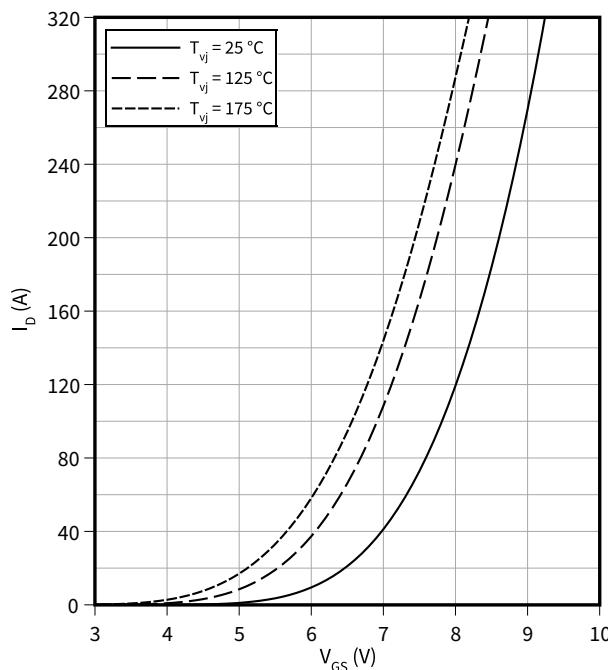
$V_{GS} = 18 \text{ V}$



### Transfer characteristic (typical), MOSFET, T1-T4

$I_D = f(V_{GS})$

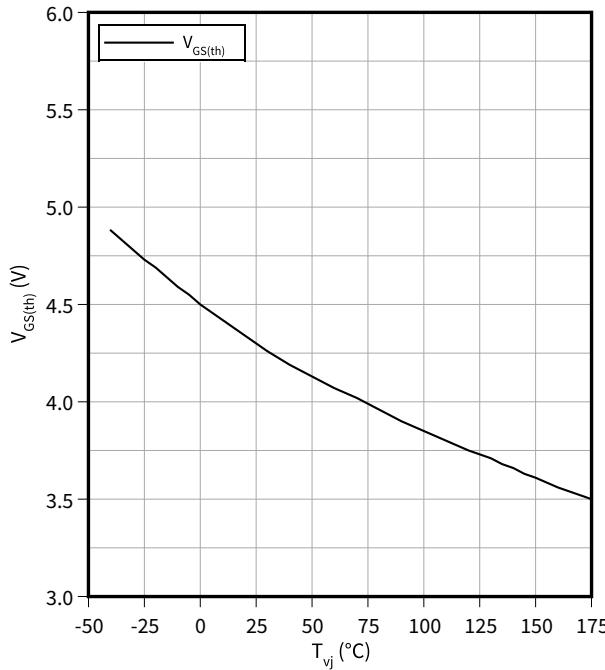
$V_{DS} = 20 \text{ V}$



**Gate-source threshold voltage (typical), MOSFET, T1-T4**

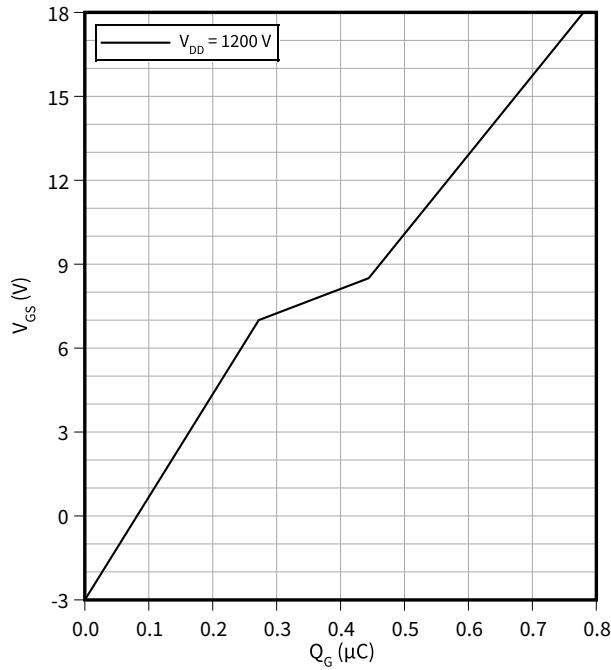
$$V_{GS(th)} = f(T_{vj})$$

$$I_D = 112 \text{ mA}, V_{GS} = V_{DS}$$


**Gate charge characteristic (typical), MOSFET, T1-T4**

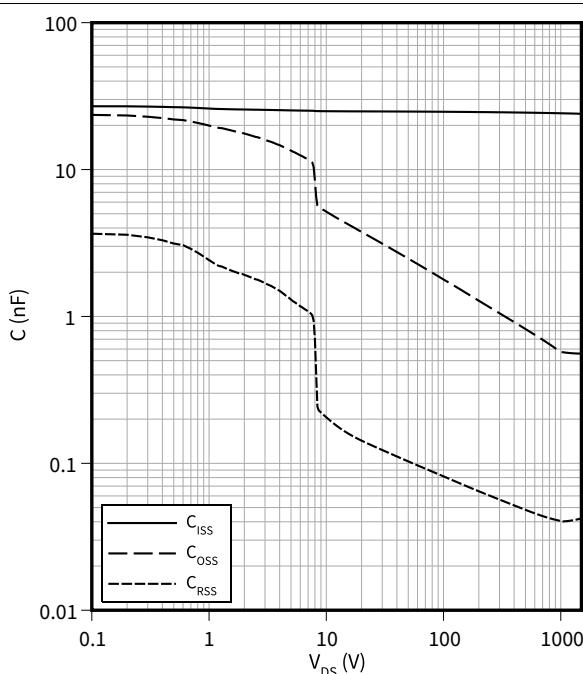
$$V_{GS} = f(Q_G)$$

$$I_D = 160 \text{ A}, T_{vj} = 25 \text{ °C}$$


**Capacity characteristic (typical), MOSFET, T1-T4**

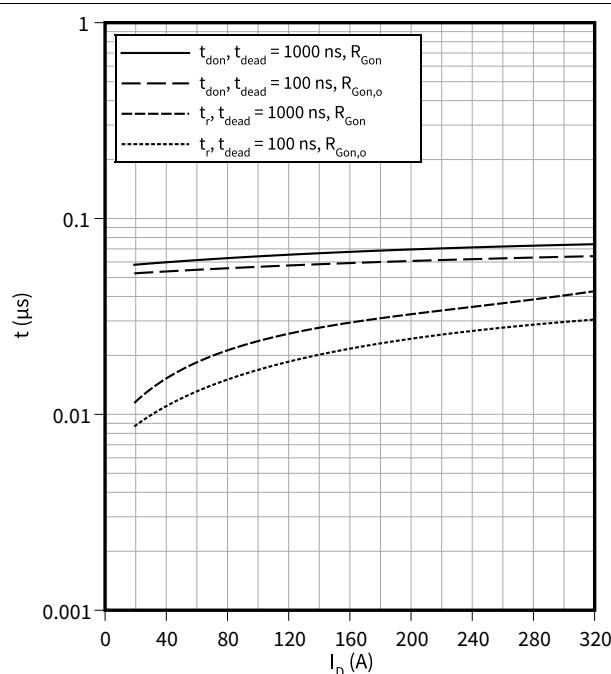
$$C = f(V_{DS})$$

$$f = 100 \text{ kHz}, T_{vj} = 25 \text{ °C}, V_{GS} = 0 \text{ V}$$


**Switching times (typical), MOSFET, T1-T4**

$$t = f(I_D)$$

$$V_{DD} = 1200 \text{ V}, R_{Gon} = 4.3 \Omega, R_{Gon,o} = 2.4 \Omega, T_{vj} = 175 \text{ °C}, V_{GS} = -3/18 \text{ V}$$

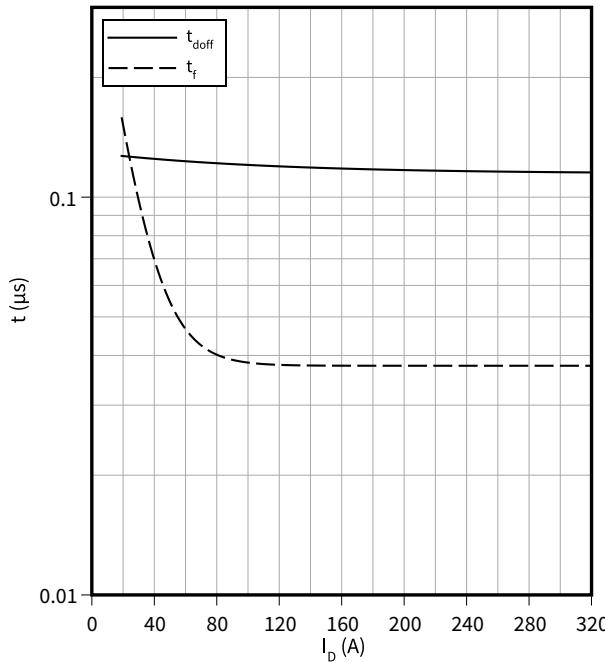


## 5 Characteristics diagrams

**Switching times (typical), MOSFET, T1-T4**

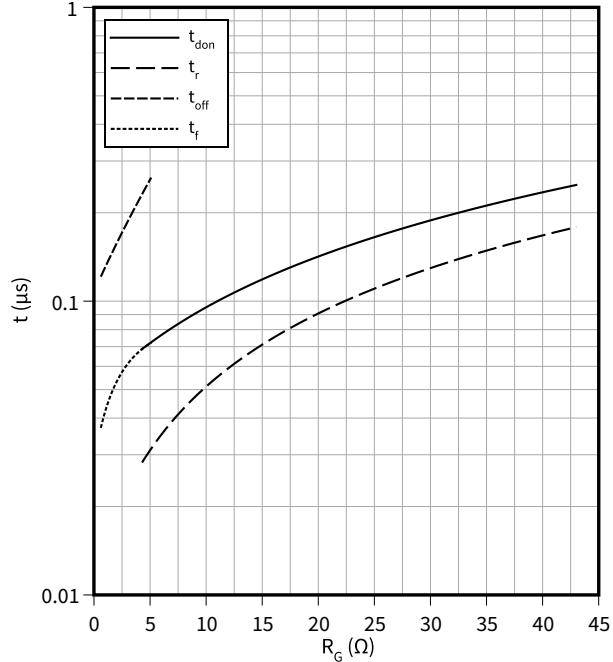
$$t = f(I_D)$$

$R_{Goff} = 0.51 \Omega$ ,  $V_{DD} = 1200 \text{ V}$ ,  $T_{vj} = 175 \text{ }^\circ\text{C}$ ,  $V_{GS} = -3/18 \text{ V}$

**Switching times (typical), MOSFET, T1-T4**

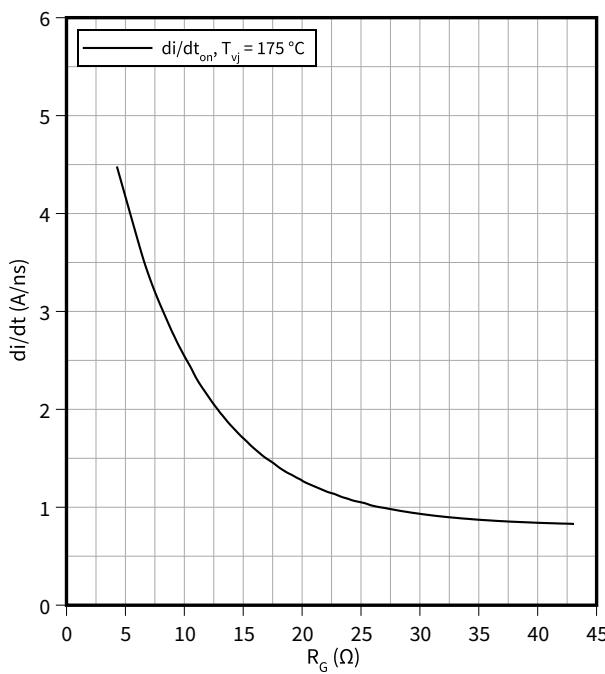
$$t = f(R_G)$$

$V_{DD} = 1200 \text{ V}$ ,  $t_{dead} = 1000 \text{ ns}$ ,  $I_D = 160 \text{ A}$ ,  $T_{vj} = 175 \text{ }^\circ\text{C}$ ,  $V_{GS} = -3/18 \text{ V}$

**Current slope (typical), MOSFET, T1-T4**

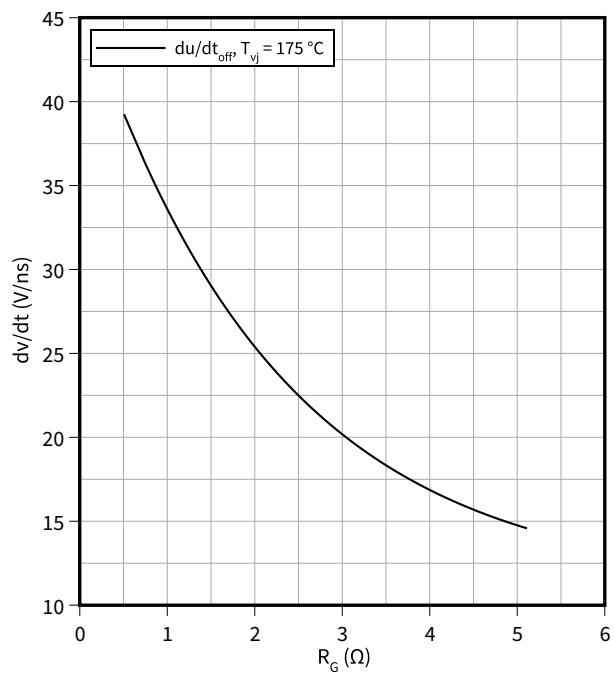
$$di/dt = f(R_G)$$

$V_{DD} = 1200 \text{ V}$ ,  $I_D = 160 \text{ A}$ ,  $V_{GS} = -3/18 \text{ V}$

**Voltage slope (typical), MOSFET, T1-T4**

$$dv/dt = f(R_G)$$

$V_{DD} = 1200 \text{ V}$ ,  $I_D = 160 \text{ A}$ ,  $V_{GS} = -3/18 \text{ V}$

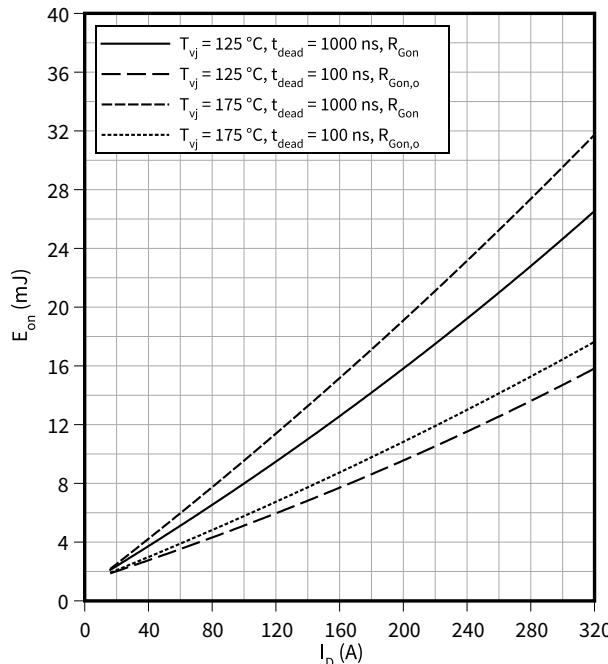


## 5 Characteristics diagrams

**Switching losses (typical), MOSFET, T1-T4**

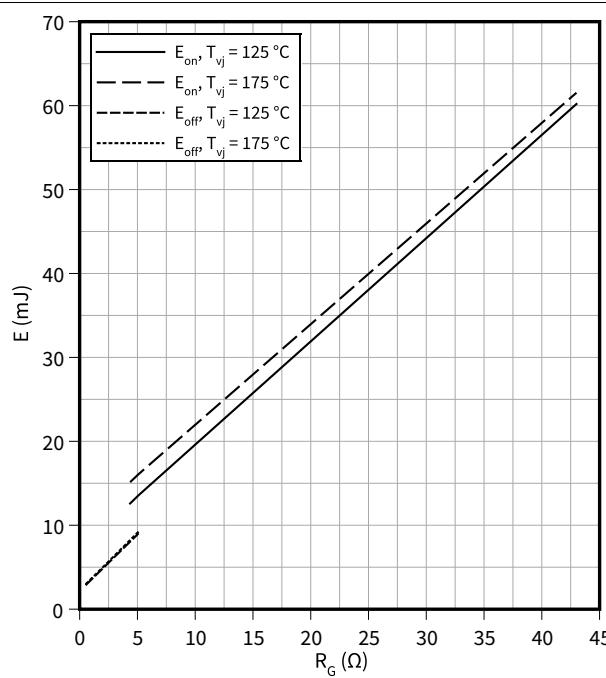
$$E_{\text{on}} = f(I_D)$$

$$V_{\text{DD}} = 1200 \text{ V}, R_{\text{Gon}} = 4.3 \Omega, R_{\text{Gon},o} = 2.4 \Omega, V_{\text{GS}} = -3/18 \text{ V}$$

**Switching losses (typical), MOSFET, T1-T4**

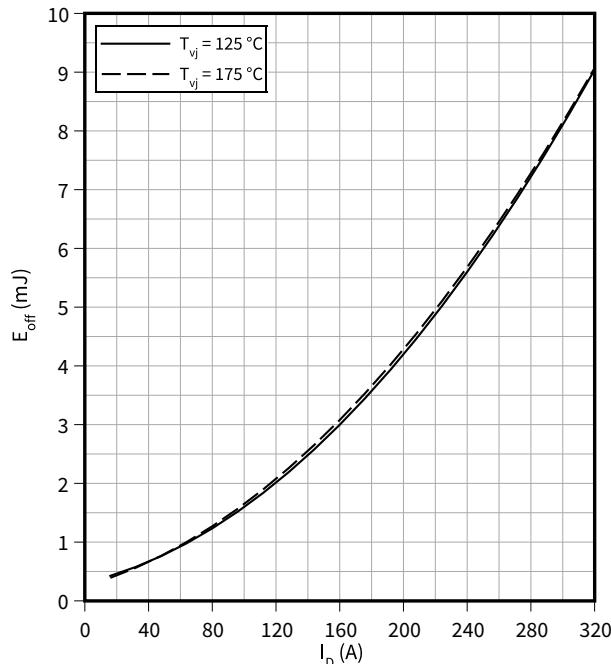
$$E = f(R_G)$$

$$V_{\text{DD}} = 1200 \text{ V}, t_{\text{dead}} = 1000 \text{ ns}, I_D = 160 \text{ A}, V_{\text{GS}} = -3/18 \text{ V}$$

**Switching losses (typical), MOSFET, T1-T4**

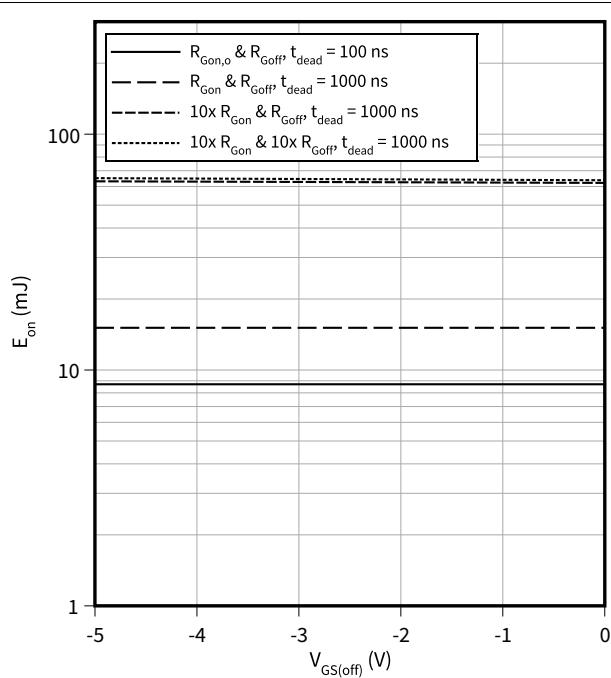
$$E_{\text{off}} = f(I_D)$$

$$R_{\text{Goff}} = 0.51 \Omega, V_{\text{DD}} = 1200 \text{ V}, V_{\text{GS}} = -3/18 \text{ V}$$

**Switching losses (typical), MOSFET, T1-T4**

$$E_{\text{on}} = f(V_{\text{GS(off)}})$$

$$R_{\text{Goff}} = 0.51 \Omega, V_{\text{DD}} = 1200 \text{ V}, R_{\text{Gon}} = 4.3 \Omega, V_{\text{GS(on)}} = 18 \text{ V}, I_D = 160 \text{ A}, R_{\text{Gon},o} = 2.4 \Omega, T_{\text{vj}} = 175 \text{ °C}$$

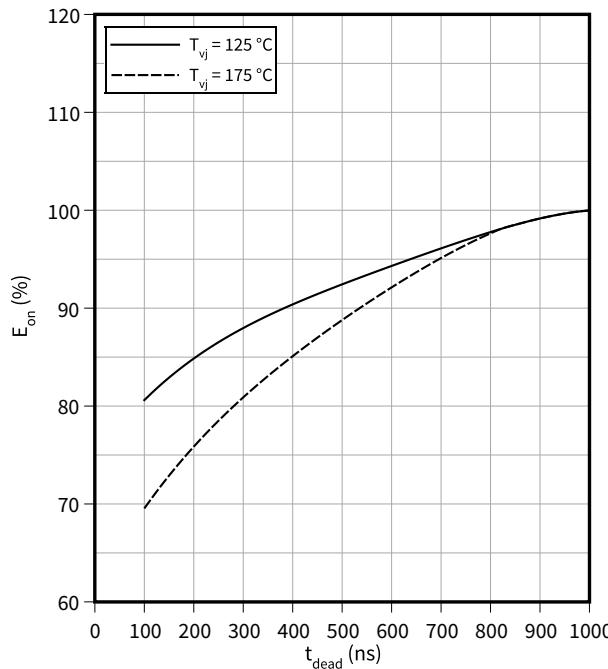


## 5 Characteristics diagrams

**Switching losses (typical), MOSFET, T1-T4**

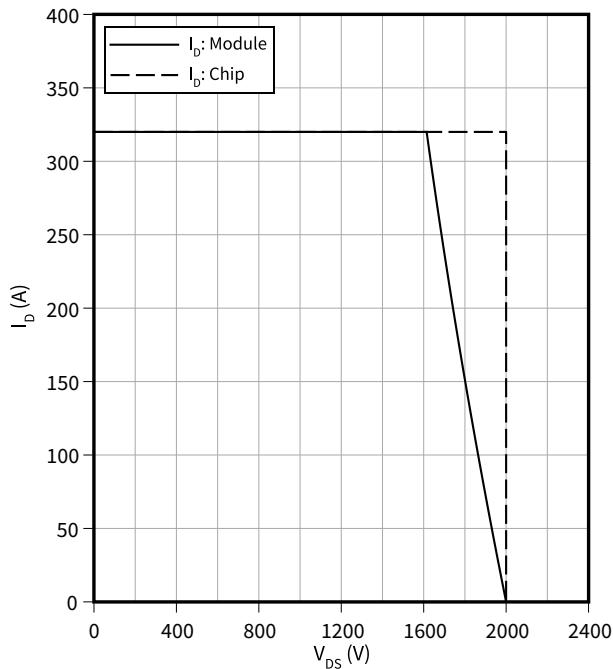
$$E_{on} = f(t_{dead})$$

$$R_{Gon} = 4.3 \Omega, I_D = 160 A, V_{DD} = 1200 V, V_{GS} = -3/18 V$$

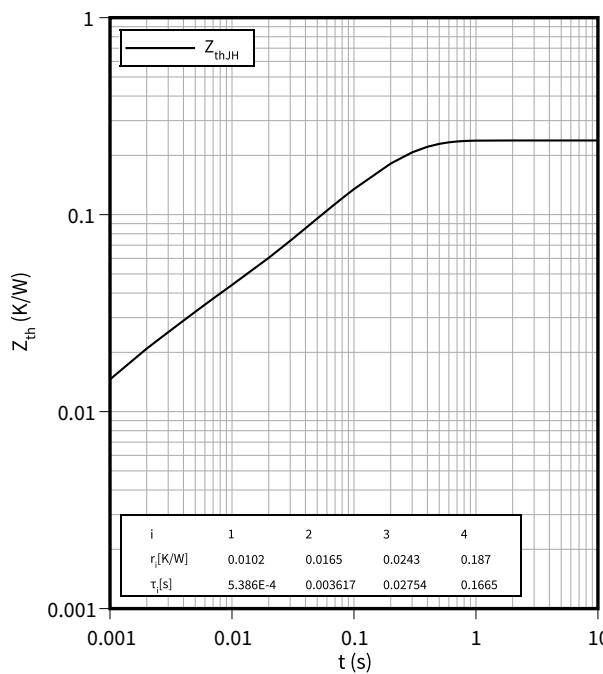
**Reverse bias safe operating area (RBSOA), MOSFET, T1-T4**

$$I_D = f(V_{DS})$$

$$R_{Goff} = 0.51 \Omega, T_{vj} = 175 °C, V_{GS} = -3/18 V$$

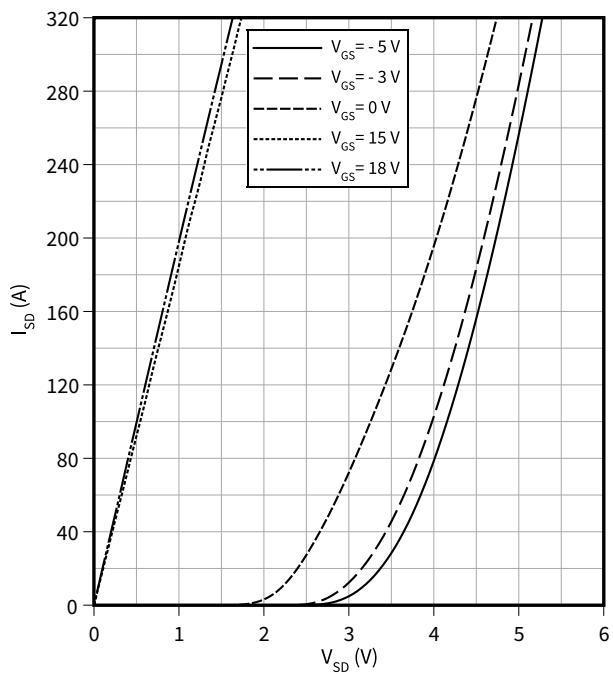
**Transient thermal impedance, MOSFET, T1-T4**

$$Z_{th} = f(t)$$

**Forward characteristic body diode (typical), MOSFET, T1-T4**

$$I_{SD} = f(V_{SD})$$

$$T_{vj} = 25 °C$$

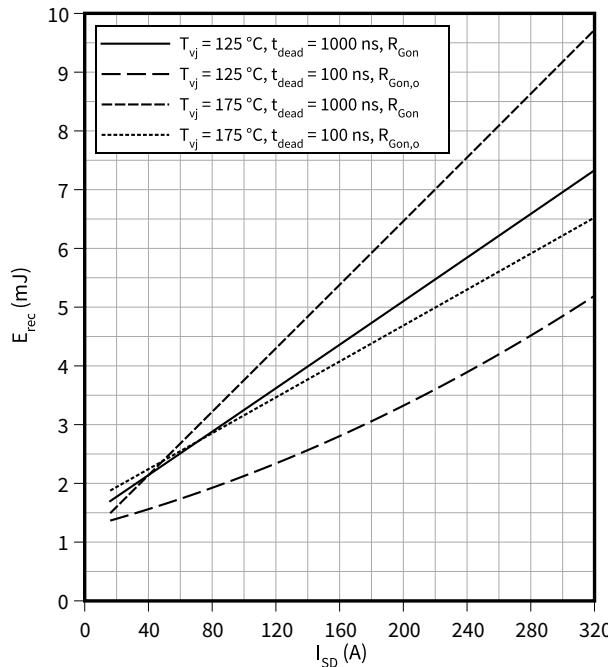


## 5 Characteristics diagrams

**Switching losses body diode (typical), MOSFET, T1-T4**

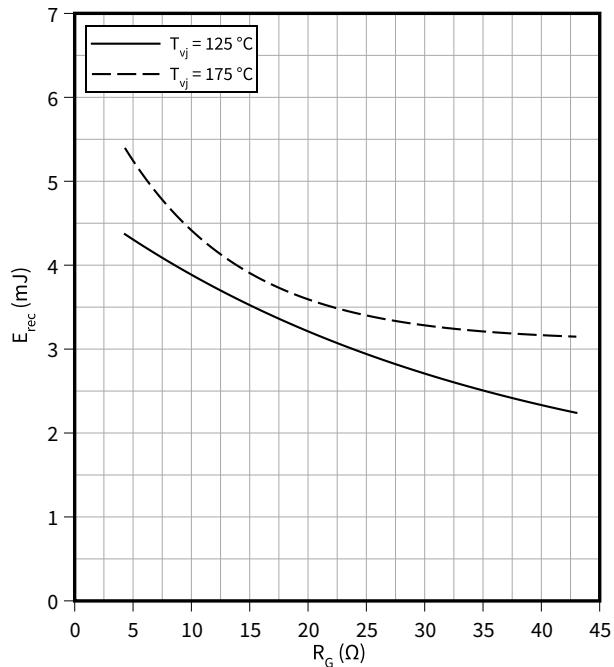
$$E_{rec} = f(I_{SD})$$

$$R_{Gon} = 4.3 \Omega, R_{Gon,o} = 2.4 \Omega, V_{DD} = 1200 \text{ V}$$

**Switching losses body diode (typical), MOSFET, T1-T4**

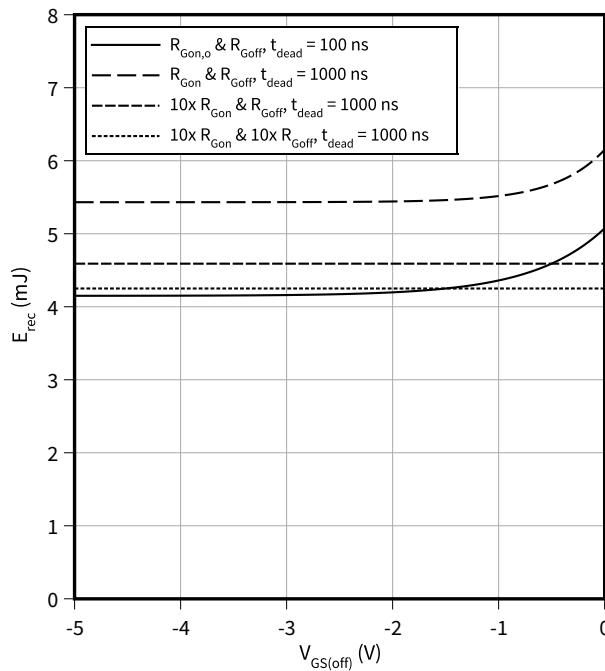
$$E_{rec} = f(R_G)$$

$$t_{dead} = 1000 \text{ ns}, I_{SD} = 160 \text{ A}, V_{DD} = 1200 \text{ V}$$

**Switching losses body diode (typical), MOSFET, T1-T4**

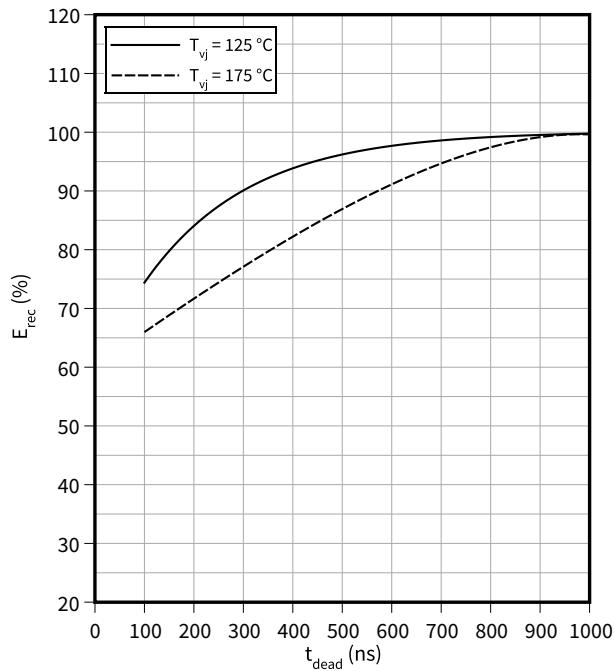
$$E_{rec} = f(V_{GS(off)})$$

$$R_{Goff} = 0.51 \Omega, R_{Gon} = 4.3 \Omega, V_{GS(on)} = 18 \text{ V}, I_{SD} = 160 \text{ A}, R_{Gon,o} = 2.4 \Omega, V_{DD} = 1200 \text{ V}, T_{vj} = 175^\circ\text{C}$$

**Switching losses body diode (typical), MOSFET, T1-T4**

$$E_{rec} = f(t_{dead})$$

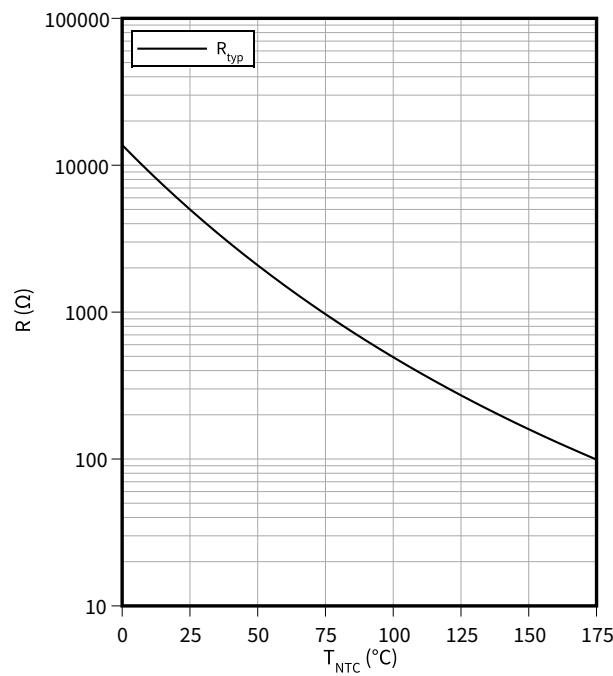
$$R_{Gon} = 4.3 \Omega, I_D = 160 \text{ A}, V_{DD} = 1200 \text{ V}, V_{GS} = -3/18 \text{ V}$$



## 5 Characteristics diagrams

**Temperature characteristic (typical), NTC-Thermistor**

$$R = f(T_{NTC})$$



## 6 Circuit diagram

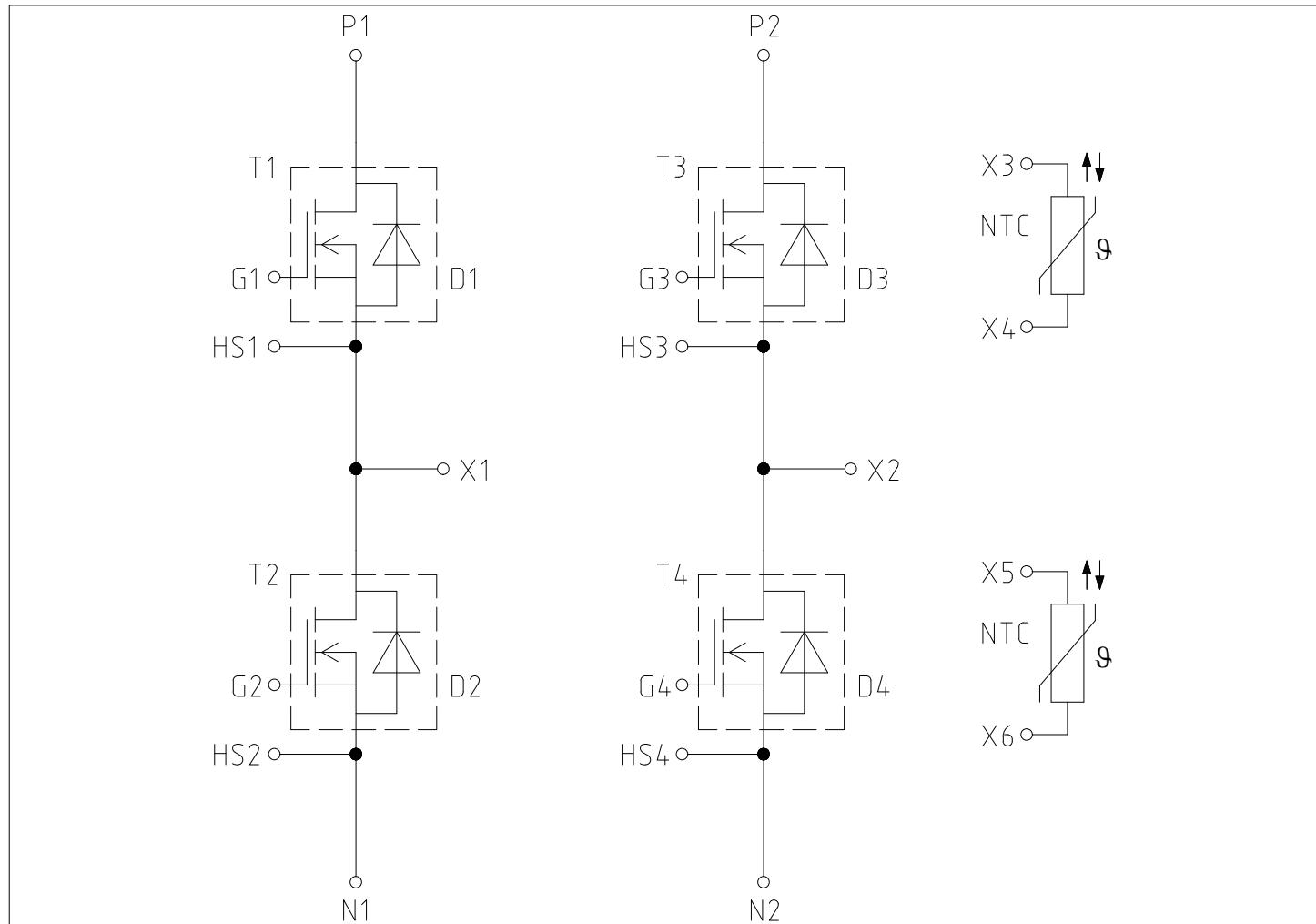
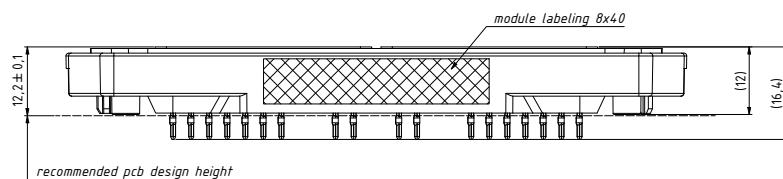
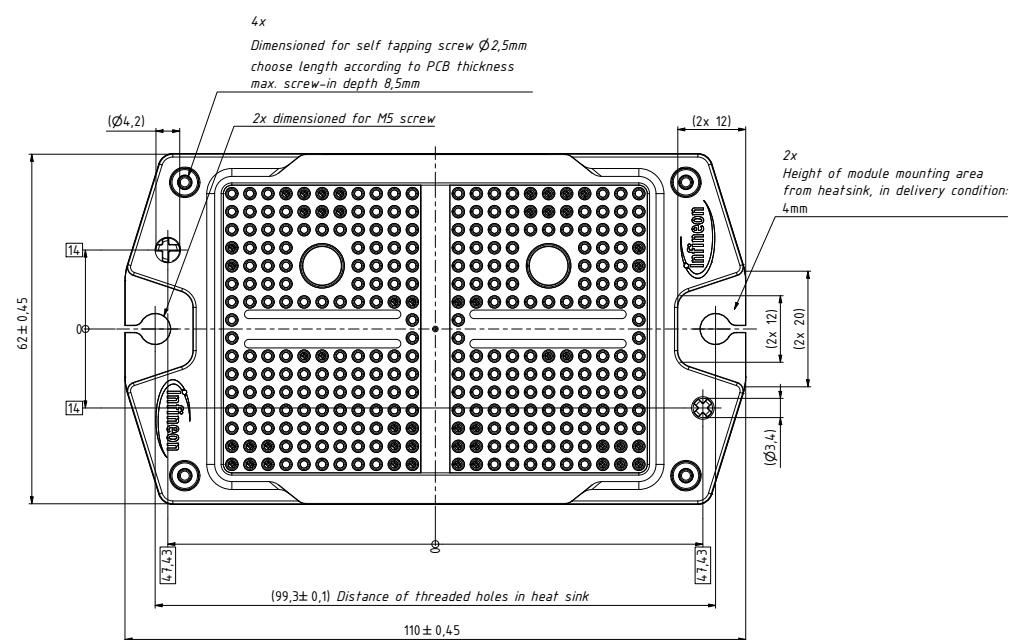
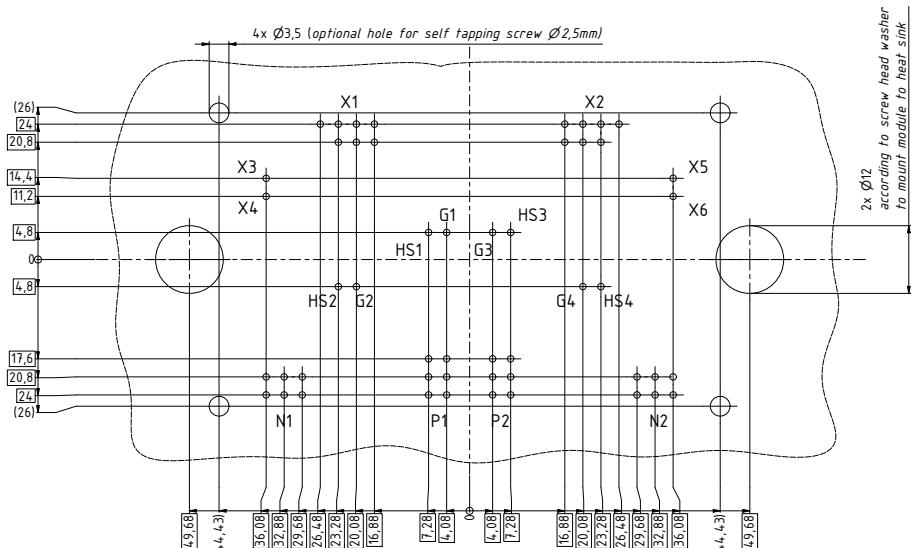


Figure 1

## 7 Package outlines



pcb hole pattern



- Details about hole specification for contacts refer to AN2023-07 chapter 2  
- Tolerance of PCB hole pattern  $\pm 0,1$

W00249500.03

**Figure 2**

## 8 Module label code

<b>Module label code</b>			
Code format	Data Matrix		Barcode Code128
Encoding	ASCII text		Code Set A
Symbol size	16x16		23 digits
Standard	IEC24720 and IEC16022		IEC8859-1
Code content	<p><i>Content</i></p> <p>Module serial number Module material number Production order number Date code (production year) Date code (production week)</p>	<p><i>Digit</i></p> <p>1 – 5 6 - 11 12 - 19 20 – 21 22 – 23</p>	<p><i>Example</i></p> <p>71549 142846 55054991 15 30</p>
Example			71549142846550549911530

Figure 3

**Revision history**

<b>Document revision</b>	<b>Date of release</b>	<b>Description of changes</b>
0.10	2024-08-12	Initial version
1.00	2024-11-11	Final datasheet

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