

SIDAC[®] (Silicon Diode for Alternating Current)

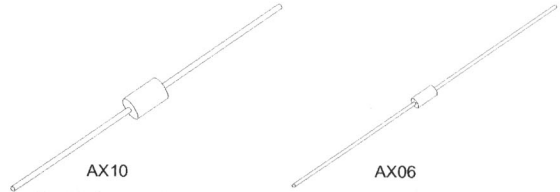
SIDAC(Bi-Directional Device)

[Features]

1. Symmetrical characteristics.
2. Perform direct switching operation using commercial power sources, and can be used in all kinds of pulse generating circuits.
3. The glass passivation ensures high reliability.

[Applications]

1. Pulse generating (gas igniters, high voltage sodium lamp drive circuit etc.)
2. AC switching (drive circuit for switching power supplies, voltage detecting circuits etc.)
3. Over voltage protection (AC line surge protection, capacitors over voltage protection etc.)



Type No.	Absolute Maximum Ratings									Electrical Characteristics									Outline														
	V _{DRM}	I _T	Conditions T/	I _{TSM}	I _{TRM}	Conditions f	di/dt	T _{stg}	T _J	V _{BO}	I _{DRM} (max)	Conditions V _O	I _{BO} (max)	I _H (typ)	V _T (max)	Conditions I _T	R _s (min)	θ _J / (max)	Package	Color Code	Fig.												
	[V]	[A]	[°C]	[A]	[A]	[kHz]	[A/μs]	[°C]	[°C]	[V]	[μA]	[V]	[mA]	[mA]	[V]	[A]	[kΩ]	[°C/W]															
K1V5	40	1	107	13	25	1	80	-40 to 125	125	45 to 60	10	40	0.5	50	1.5	1	0.1	15	AX10	6-3	Red												
K1V6										55 to 65																							
K1V8	70	1	107	20	25	1	80	-40 to 125	125	77 to 95	10	70	0.5	50	1.5	1	0.1	15				AX10	6-3	Gold									
K1V10										95 to 113																							
K1V11	90	1	112	20	25	1	80	-40 to 125	125	104 to 118	10	90	0.5	50	1.5	1	0.1	15							AX10	6-3	Silver						
K1V12										110 to 125																							
K1V14	115	1	109	20	25	1	80	-40 to 125	125	125 to 150	10	115	0.5	30	1.5	1	0.1	15										AX10	6-3	Orange			
K1V16										145 to 170																							
K1V18	150	1	108	20	25	1	80	-40 to 125	125	165 to 200	10	150	0.5	50	1.5	1	0.1	15													AX10	6-3	Blue
K1V22										200 to 230																							
K1V24	180	1	108	20	25	1	80	-40 to 125	125	220 to 250	10	180	0.5	20	1.5	1	0.1	15	AX10	6-3	Green												
K1V26										240 to 270																							
K1V22(W)	180	1	91	16	17	1	80	-40 to 125	125	200 to 230	10	180	0.5	50	3	1	0.1	15				AX10	7	Yellow									
K1V24(W)										220 to 250																							
K1V26(W)	270	1	92	13	15	1	50	-40 to 125	125	240 to 265	10	270	0.5	50	3	1	0.1	15							AX10	7	Blue						
K1V33(W)										309 to 355																							
K1V34(W)	270	1	92	13	15	1	50	-40 to 125	125	320 to 360	10	270	0.5	50	3	1	0.1	15										AX10	7	Orange			
K1V36(W)										340 to 380																							
K1V38(W)	270	1	92	13	15	1	50	-40 to 125	125	360 to 400	10	270	0.5	50	3	1	0.1	15													AX10	7	Blue
K1V(A)10										95 to 113																							
K1V(A)11	90	1	98	16	15	1	50	-40 to 125	125	104 to 118	10	90	0.5	50	1.6	1	0.1	20	AX06	2-1	Orange												
K1V(A)12										110 to 125																							
K1V(A)14	115	1	98	16	15	1	50	-40 to 125	125	125 to 150	10	115	0.5	50	1.6	1	0.1	20				AX06	2-1	Blue									
K1V(A)16										145 to 170																							

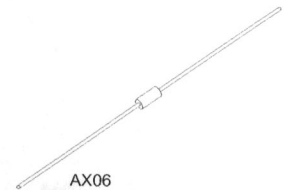
SIDAC (Uni-Directional Device)

[Features]

1. Uni-Directional characteristics.
2. Smaller package than Sidac (Bi-directional device)
3. Switching pulse generating operation at DC.
4. The glass passivation ensures high reliability.

[Applications]

1. Pulse generation (gas igniters, Ion generation equipment, high voltage sodium lamp drive circuit etc.)
2. Over voltage protection (DC line surge protection)



Type No.	Absolute Maximum Ratings									Electrical Characteristics									Outline		
	V _{DRM}	I _T	Conditions T/	I _{TSM}	I _{TRM}	Conditions f	di/dt	T _{stg}	T _J	V _{BO} (A)	I _{BO} (A)	Conditions V _O	I _{BO} (A)	I _H (A)	V _T	Conditions I _T	R _s (A)	θ _J / (max)	Package	Color Code	Fig.
	[V]	[A]	[°C]	[A]	[A]	[kHz]	[A/μs]	[°C]	[°C]	[V]	[μA]	[V]	[mA]	[mA]	[V]	[A]	[kΩ]	[°C/W]			
G1V(A)15C	170	1	98	-	80	1	80	-40 to 125	125	142 to 157	10	115	0.5	60	1.5	1	0.1	20	AX06	Violet	2-3
G1V(A)20C										190 to 210		170									

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