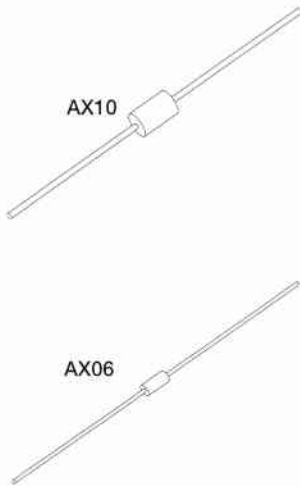


SIDAC® (Silicon Diode for Alternating Current).....

SIDAC (Bi-Directional Device)

- Features**
 1. Symmetrical characteristics.
 2. Operating directly from the AC mains, and can be used in all kinds of pulse generating circuits.
 3. The glass passivation ensures high reliability.
- Applications**
 1. Pulse generation: gas igniters, HID (high intensity discharge) 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, capacitor rupture prevention, etc.

Axial



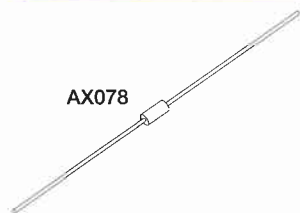
Type No.	Absolute Maximum Ratings								Electrical Characteristics								Outline				
	V _{DRM} [M]	I _T [A]	Conditions T _J [°C]	I _{TSM} [A]	I _{TRM} [A]	Conditions f [kHz]	di _T /dt [A/μs]	T _{stg} [°C]	T _j [°C]	V _{BO} [V]	I _{DRM} (max) [μA]	Conditions V _D [V]	I _{BO} (max) [mA]	I _H (typ) [mA]	V _T (max) [V]	Conditions I _T [A]	R _s (min) [kΩ]	θ _{JL} (max) [°C/W]	Package	Color Code	Fig.
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			
K1V6										55 to 65								Gold			
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	Silver		
K1V10										95 to 113								Orange			
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	Blue		
K1V12										110 to 125									Green		
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	Violet		
K1V16			108							145 to 170											
K1V18	150									165 to 200		150		50							
K1V22										200 to 230									Yellow		
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	Yellow	7
K1V26										240 to 270											
K1V22(W)										200 to 230											
K1V24(W)	180	1	91	16	17	1	80	-40 to 125	125	220 to 250	10	180	0.5	50	3	1	0.1	15			
K1V26(W)										240 to 265											
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	Blue	6-3
K1V36(W)										340 to 380											
K1V38(W)										360 to 400											
K1V(A)10										95 to 113									Orange		
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	Blue	2-1
K1V(A)12										110 to 125										Green	
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		Violet	
K1V(A)16										145 to 170											

Spec Code 4□□□ (See page 44 for the last 3 digits of the Spec Code)

SIDAC for capacitor rupture prevention

- Features**
 1. Compact package (AX078) with the same rating as the K1V series.
 2. Low risk of firing by mistake due to noise.
- Applications**
 1. Capacitor rupture prevention.
 2. Over voltage protection.

Axial



Type No.	Absolute Maximum Ratings			Electrical Characteristics			Outline		
	V _{DRM} [M]	T _{stg} [°C]	T _j [°C]	V _{BO} [V]	I _{DRM} (max) [μA]	V _D [V]	Package	Color Code	Fig.
☆NK1V(B)24	180	-40 to 125	125	200 to 250	10	180	AX078	Yellow	5-4
☆NK1V(B)26	180	-40 to 125	125	200 to 270	10	180	AX078	Yellow	5-4
☆NK1V(B)46	400	-40 to 125	125	420 to 500	10	400	AX078	White	5-4

☆: New product

Spec Code 4□□□ (See page 44 for the last 3 digits of the Spec Code)

SIDAC (Uni-Directional Device)

- Features**
 1. Uni-directional characteristics.
 2. Smaller package than bi-directional SIDAC
 3. Switching operation from DC power for pulse generation
 4. The glass passivation ensures high reliability.
- Applications**
 1. Pulse generation: gas igniters, negative ion generators, HID (high intensity discharge) lamp drive circuit, etc.
 2. Over voltage protection: DC line surge protection.

Surface Mount

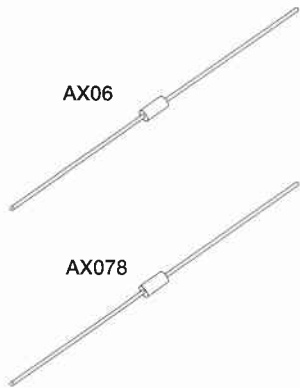


1F

Type No.	Absolute Maximum Ratings							Electrical Characteristics							Outline				
	V _{DRM(A)}	I _T	I _{TRM}	di _T /dt	T _{stg}	T _J	V _{BO(A)}	I _{DRM(A)}	I _{BO(A)}	I _{H(A)}	V _{T(A)}	R _{S(A)}	θ _J	Package	Fig.				
	[V]	[A]	Conditions T _J [°C]	Conditions f [Hz]	[A/μs]	[°C]	[°C]	[μA]	Conditions V _D [V]	[mA]	I _{H(K)} [mA]	V _{T(K)} [V]	Conditions I _T [A]			(min)	[kΩ]	[°C/W]	
☆G1VL8C	70		80				75 to 90	10	70	1.0	100	1.5	1	0.1	23	1F	13-3		
☆G1VL10C	90	1	98	150	60	150	-40 to 125	125	95 to 110	10	90	0.5	100	1.5	1	0.1	23	1F	13-3
☆G1VL22C	190		150				210 to 230	10	190	0.5	60	1.5	1	0.1	23	1F	13-3		

☆: New product

Axial



AX06

AX078

Type No.	Absolute Maximum Ratings							Electrical Characteristics							Outline			
	V _{DRM(A)}	I _T	I _{TRM}	di _T /dt	T _{stg}	T _J	V _{BO(A)}	I _{DRM(A)}	I _{BO(A)}	I _{H(A)}	V _{T(A)}	R _{S(A)}	θ _J	Package	Color Code	Fig.		
	[V]	[A]	Conditions T _J [°C]	Conditions f [Hz]	[A/μs]	[°C]	[°C]	[μA]	Conditions V _D [V]	[mA]	I _{H(K)} [mA]	V _{T(K)} [V]	Conditions I _T [A]				(min)	[kΩ]
☆G1V(A)8C	70		98	80			75 to 90	10	70	1.0	60	1.5	1	0.1	20	AX06	Silver	2-3
☆G1V(A)10C	90		98	80			95 to 110	10	90	0.5	60	1.5	1	0.1	20		Orange	
☆G1V(A)12C	100		98	80			110 to 130	10	100	0.5	60	1.5	1	0.1	20		Green	
☆G1V(A)14C	120		98	80			130 to 150	10	120	0.5	60	1.5	1	0.1	20		Brown	
☆G1V(A)15C	115		98	80			142 to 157	10	115	0.5	60	1.5	1	0.1	20		Violet	
☆G1V(A)20C	170	1	98	80	60	80	190 to 210	10	170	0.5	60	1.5	1	0.1	20		Yellow	
☆G1V(B)8C	70		102	120			75 to 90	10	70	1.0	60	1.5	1	0.1	17	AX078	Silver	5-3
G1V(B)20C	170		102	120			190 to 210	10	170	0.5	60	1.5	1	0.1	17		Yellow	
☆G1V(B)22C	190		102	120			210 to 230	10	190	0.5	60	1.5	1	0.1	17		Yellow	
☆G1V(B)23C	200		102	120			220 to 240	10	200	0.5	60	1.5	1	0.1	17		Yellow	
☆G1V(B)24C	210		102	120			230 to 250	10	210	0.5	60	1.5	1	0.1	17		Yellow	

☆: New product

Spec Code 4□□□ (See page 44 for the last 3 digits of the Spec Code)