

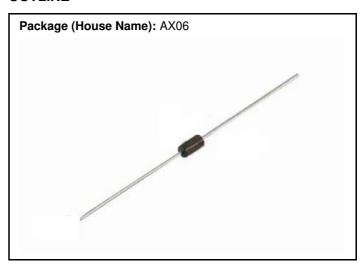
K1V(A)11

SIDACs / Bi-directional (K1V Series) 90V, $10\mu A$

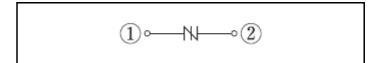
Feature

- · Bi-directional type
- Wide-ranging pulse generation
- · Direct switching with commercial power
- A reliable product with a track record, developed for many applications
- · Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Repetitive peak off-state voltage	V_{DRM}		90	V
On-state current (r.m.s.)	I _T (RMS)	TI=109°C, 50Hz sine wave, θ=180°	1	Α
Surge on-state current	I _{TSM}	Tj=25°C, 50Hz Sine wave, θ =180°, Non-repetitive 1 cycle peak value	16	Α
Pulse on-state current	I _{TRM}	Ta=25°C, Pulse width to=10μs, Sine wave, f=1kHz	15	Α
Pulse on-state current	I _{TRM}	Ta=25°C, Pulse width to=10μs, Sine wave, f=60Hz	60	Α
Critical rate of rise of on-state current	di _T /dt		50	A/µs

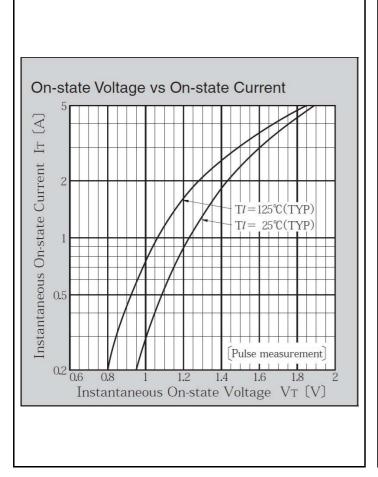
^{* :} See the original Specifications

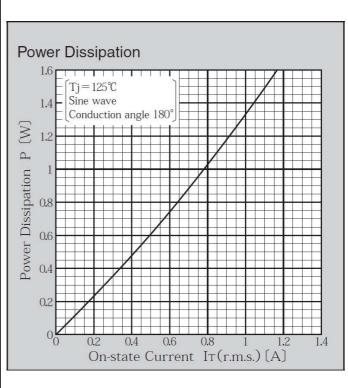
Electrical Characteristics (unless otherwise specified : TI=25°C)

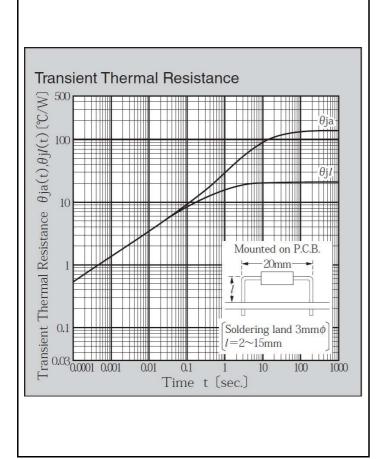
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V_{BO}	dv/dt=4V/ms, Pulse measurement	104		118	V
Off-state current	I _{DRM}	VD=90V			10	μΑ
Breakover current	I _{BO}				0.5	mA
Holding current	I _H			50		mA
On-state voltage	V _T	IT=1A			1.6	V
Switching Resistance	Rs		0.1			kΩ
Thermal Resistance	Rth(j-l)	Junction to lead			20	°C/W

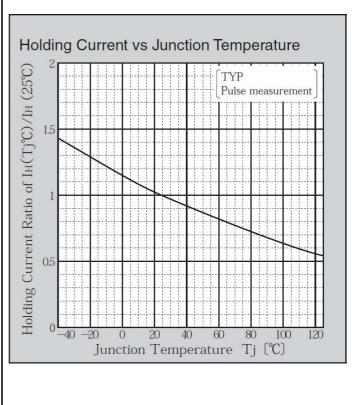
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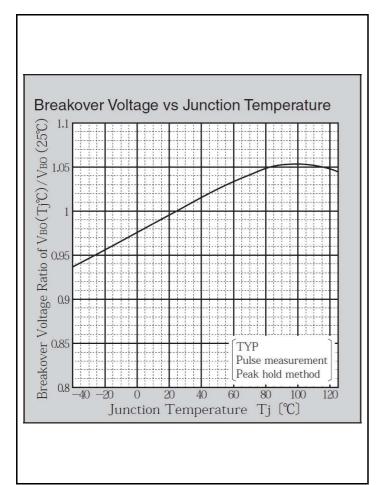
CHARACTERISTIC DIAGRAMS

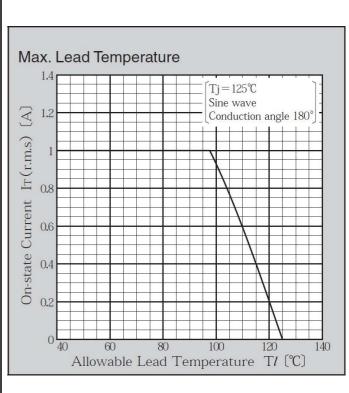


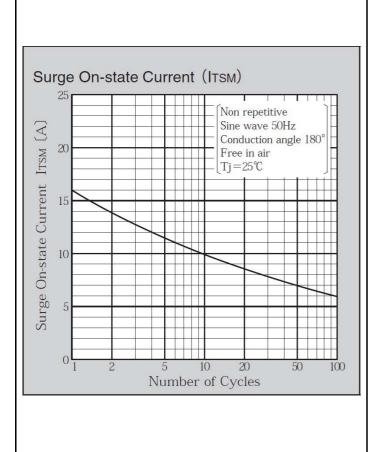


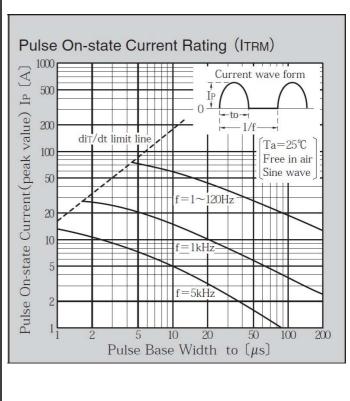


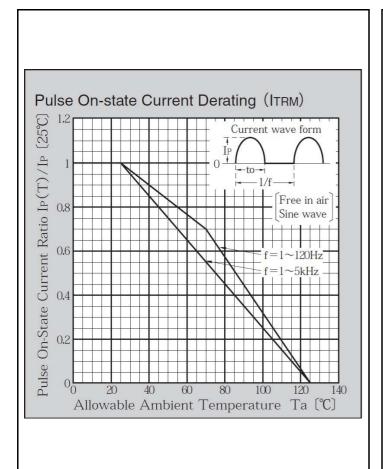


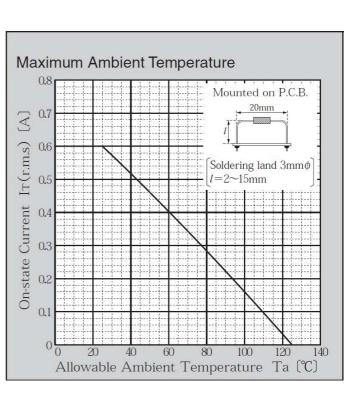










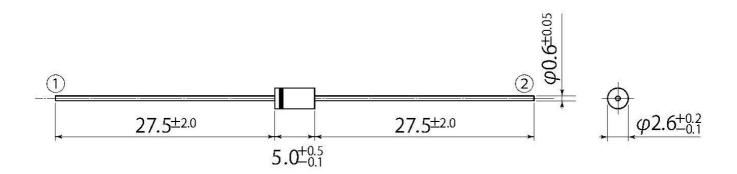


unit:mm

scale: 2/1

A2

JEDEC Code	Т
JEITA Code	-
House Name	AX06



Notes

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(Special applications)

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

(Specific applications)

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