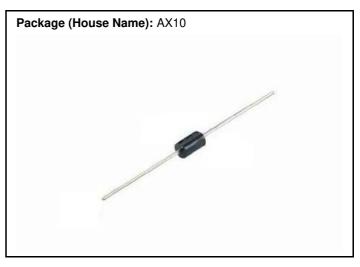
K1V22(W) SIDACs / Bi-directional (K1V Series) 180V, 10µA

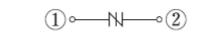
Feature

- · Bi-directional type
- Wide-ranging pulse generation
- · Direct switching with commercial power
- ${\boldsymbol{\cdot}}$ 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}		180	V
On-state current (r.m.s.)	I _T (RMS)	TI=91°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	А
Pulse on-state current	I _{TRM}	Ta=25°C, Pulse width to=10µs, Sine wave, f=1kHz	17	Α
Pulse on-state current	I _{TRM}	Ta=25°C, Pulse width to=10µs, Sine wave, f=60Hz	50	Α
Critical rate of rise of on-state current	di _T /dt		80	A/µs

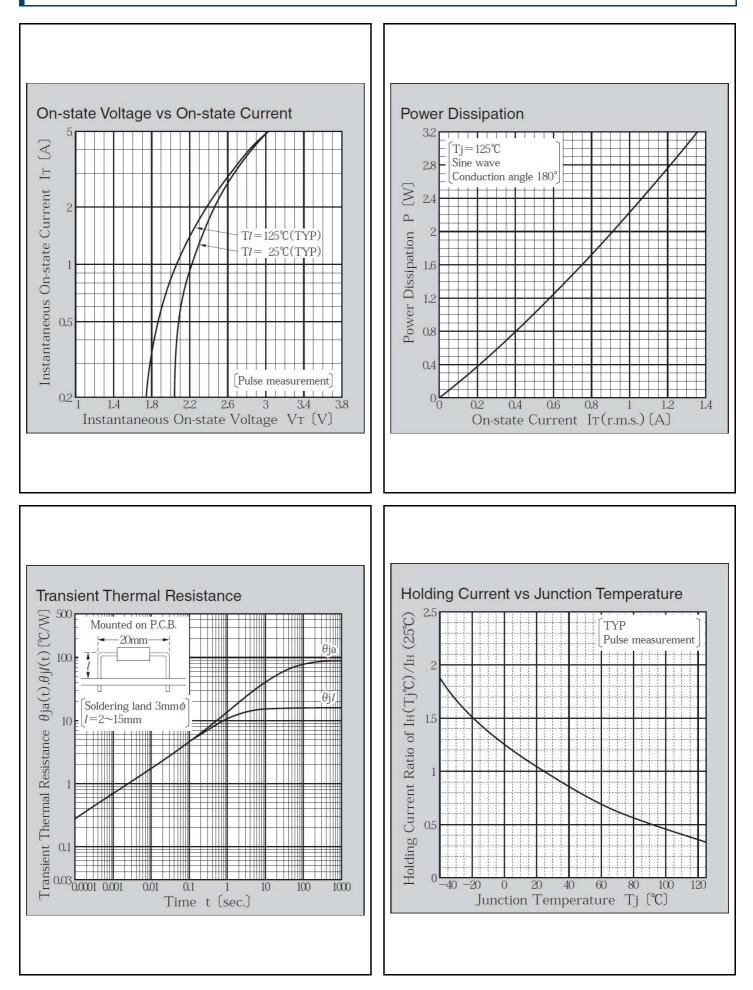
* : See the original Specifications

Electrical Characteristics (unless otherwise specified : TI=25°C)
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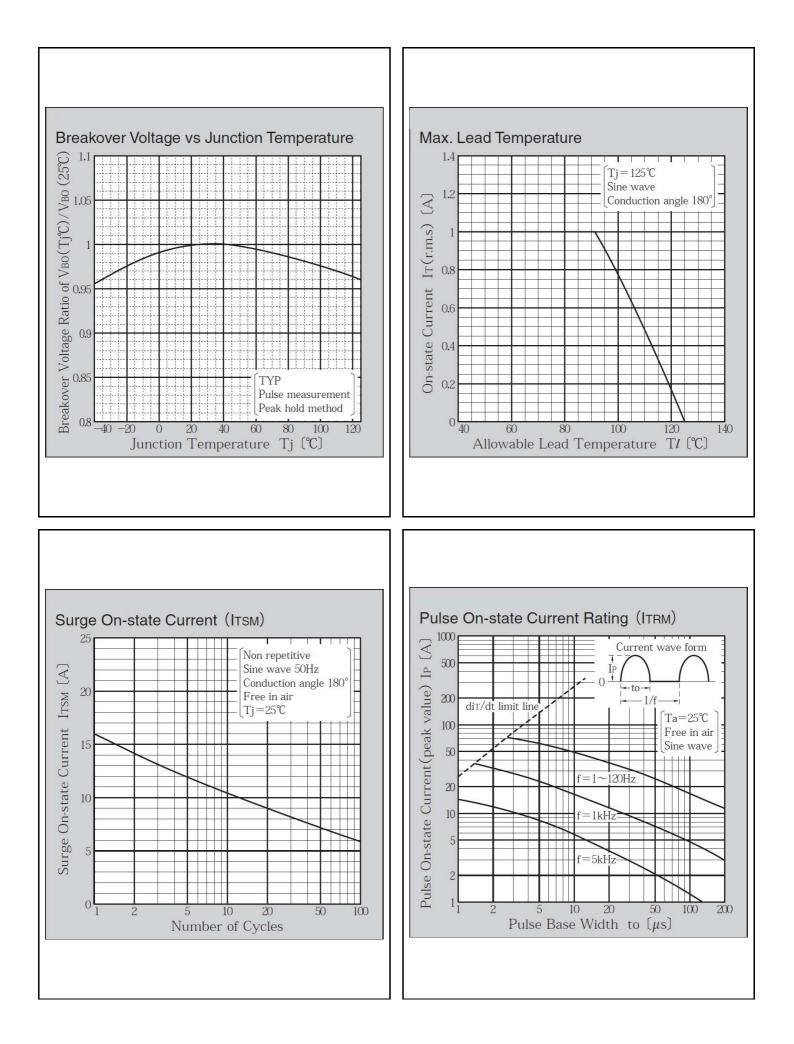
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Breakover voltage	V _{BO}	dv/dt=4V/ms, Pulse measurement	200		230	V
Off-state current	I _{DRM}	VD=180V			10	μA
Breakover current	I _{BO}				0.5	mA
Holding current	Ι _Η			50		mA
On-state voltage	V _T	IT=1A			3	V
Switching Resistance	Rs		0.1			kΩ
Thermal Resistance	Rth(j-l)	Junction to lead			15	°C/W

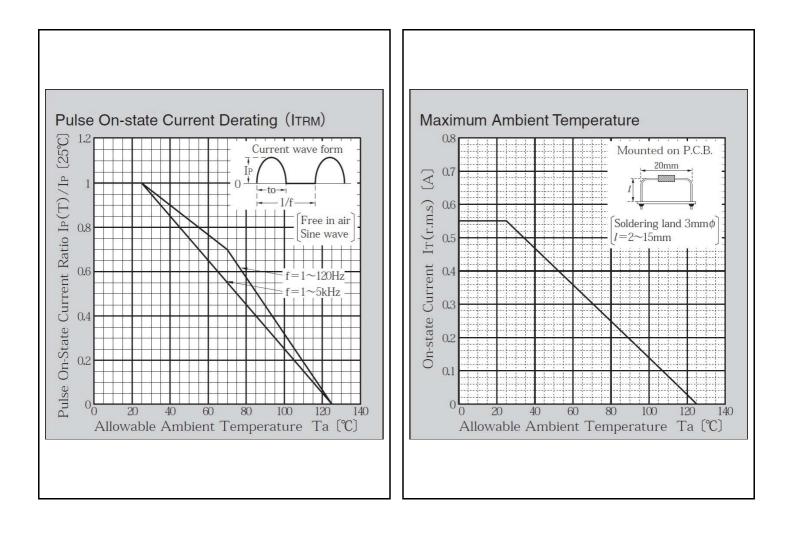
* :See the original Specifications

CHARACTERISTIC DIAGRAMS



3/7

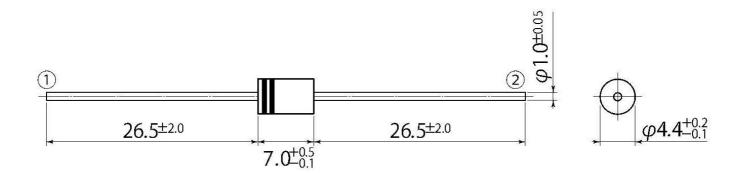




unit:mm

scale: 2/1

A6	JEDEC Code	-
	JEITA Code	_
	House Name	AX10



Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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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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