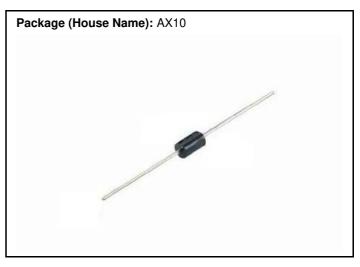
# K1V24(W) SIDACs / Bi-directional (K1V Series) 180V, 10µA

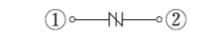
# Feature

- · Bi-directional type
- Wide-ranging pulse generation
- · Direct switching with commercial power
- $\mbox{ \bullet}$  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		-40 to 125	°C
Repetitive peak off-state voltage	V <sub>DRM</sub>		180	V
On-state current (r.m.s.)	I <sub>T</sub> (RMS)	TI=91°C, 50Hz sine wave, θ=180°, On glass-epoxy substrate	1	А
Surge on-state current	I <sub>TSM</sub>	Tj=25°C, 50Hz Sine wave, $\theta$ =180°, Non-repetitive 1 cycle peak value	16	А
Pulse on-state current	I <sub>TRM</sub>	Ta=25°C, Pulse width to=10µs, Sine wave, f=1kHz	17	A
Pulse on-state current	I <sub>TRM</sub>	Ta=25°C, Pulse width to=10µs, Sine wave, f=60Hz	50	A
Critical rate of rise of on-state current	di <sub>T</sub> /dt		80	A/µs

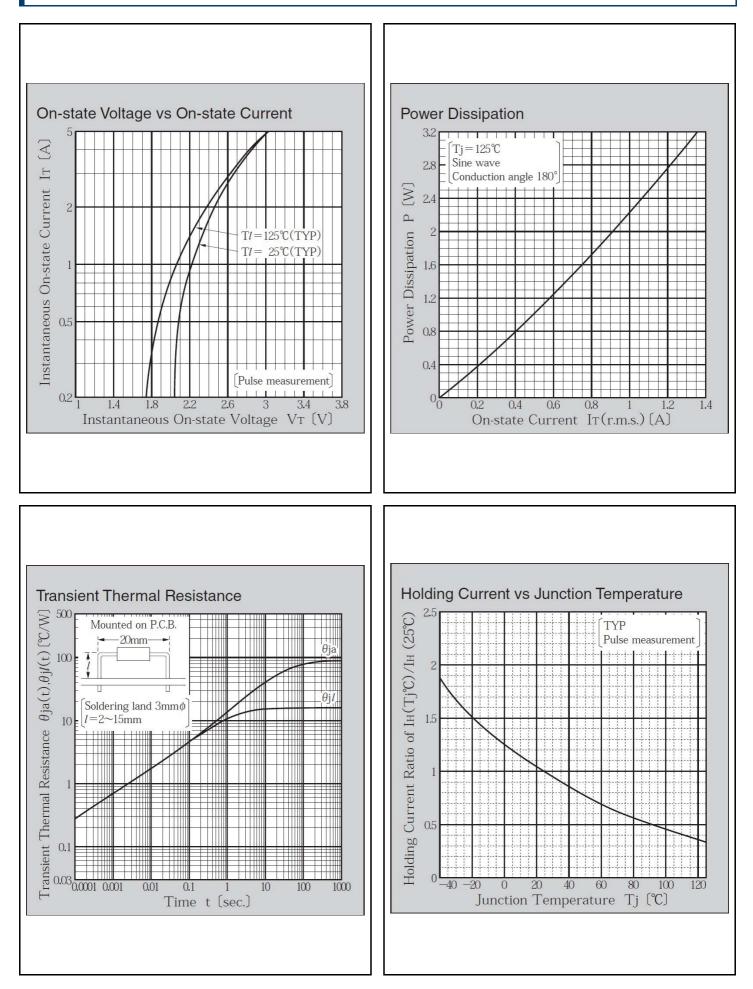
\* : See the original Specifications

<b>Electrical Characteristics</b>	(unless otherwise specified : TI=25°C)

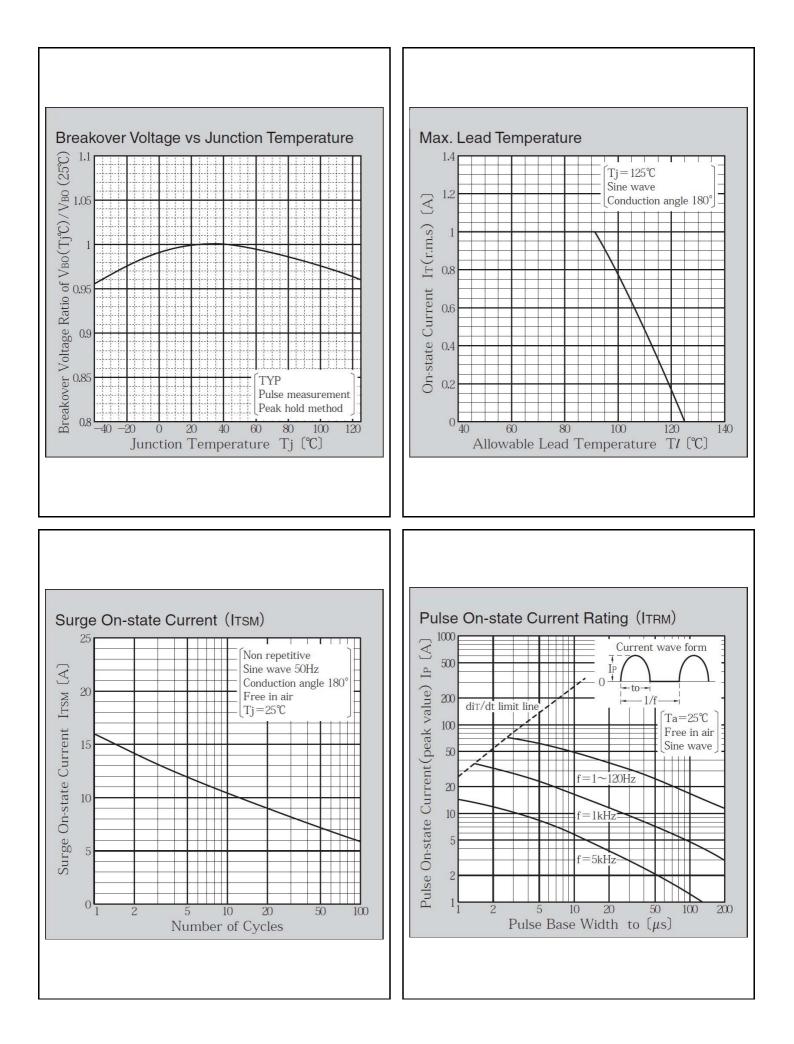
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	
Breakover voltage	V <sub>BO</sub>	dv/dt=4V/ms, Pulse measurement	220		250	V
Off-state current	I <sub>DRM</sub>	VD=180V			10	μA
Breakover current	I <sub>BO</sub>				0.5	mA
Holding current	Ι <sub>Η</sub>			50		mA
On-state voltage	V <sub>T</sub>	IT=1A			3	V
Switching Resistance	Rs		0.1			kΩ
Thermal Resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate			15	°C/W

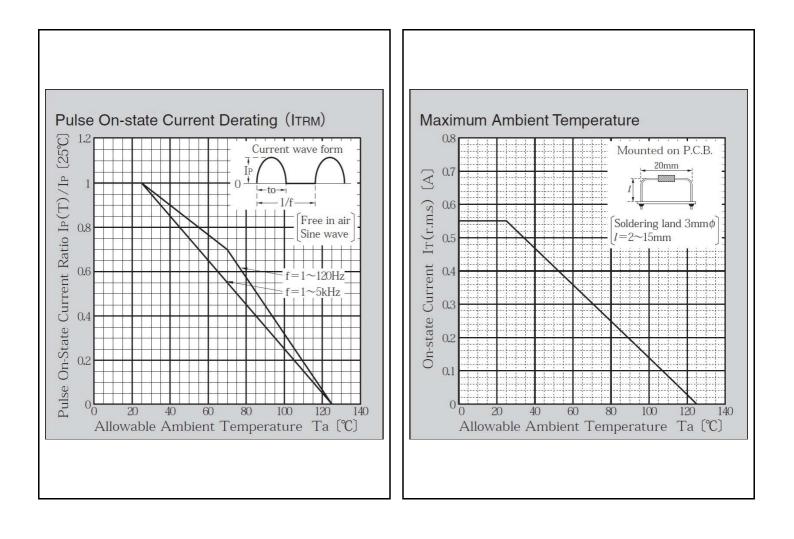
\* :See the original Specifications

# **CHARACTERISTIC DIAGRAMS**



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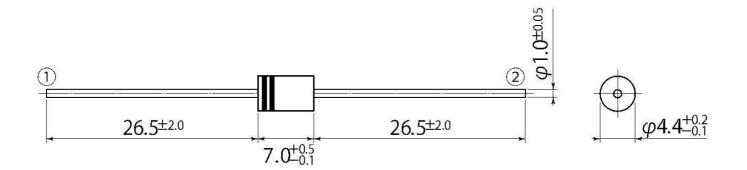




unit:mm

scale: 2/1

A6	JEDEC Code	-
	JEITA Code	_
	House Name	AX10



## 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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