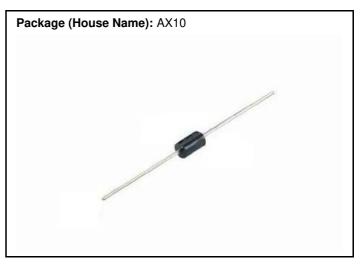
## K1V12 SIDACs / Bi-directional (K1V Series) 90V, 10μA

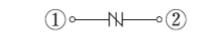
## Feature

- · 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 <sub>DRM</sub>		90	V
On-state current (r.m.s.)	I <sub>T</sub> (RMS)	TI=112°C, 50Hz sine wave, $\theta$ =180°	1	A
Surge on-state current	I <sub>TSM</sub>	Tj=25°C, 50Hz Sine wave, $\theta$ =180°, Non-repetitive 1 cycle peak value	20	А
Pulse on-state current	I <sub>TRM</sub>	Ta=25°C, Pulse width to=10µs, Sine wave, f=1kHz	25	A
Pulse on-state current	I <sub>TRM</sub>	Ta=25°C, Pulse width to=10µs, Sine wave, f=60Hz	80	A
Critical rate of rise of on-state current	di <sub>T</sub> /dt		80	A∕µs

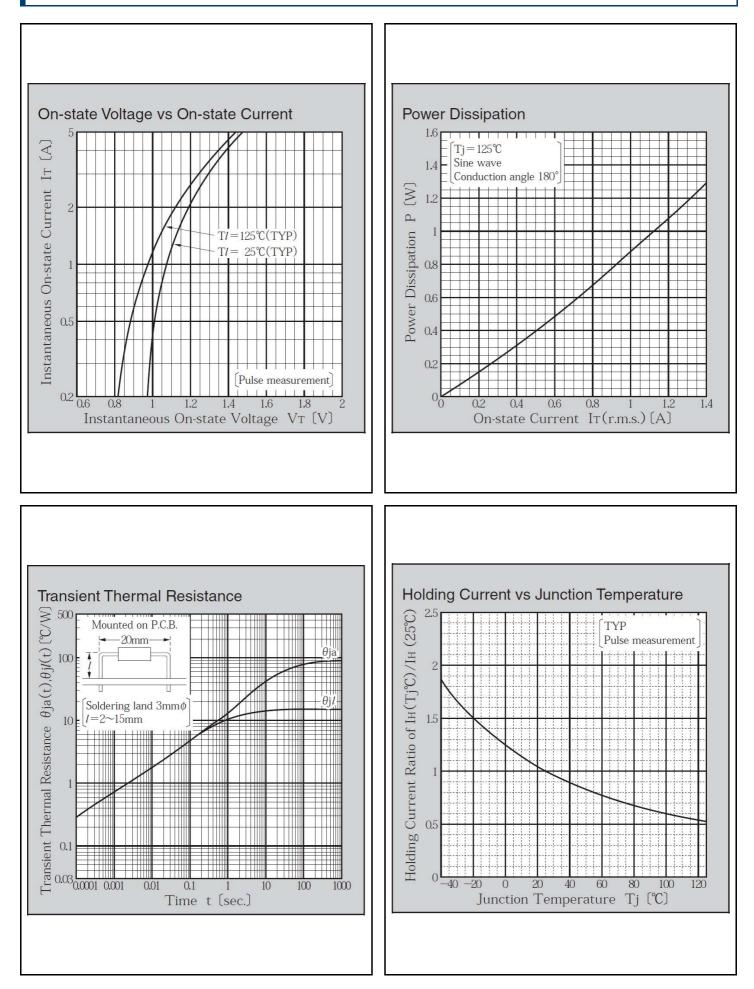
\* : See the original Specifications

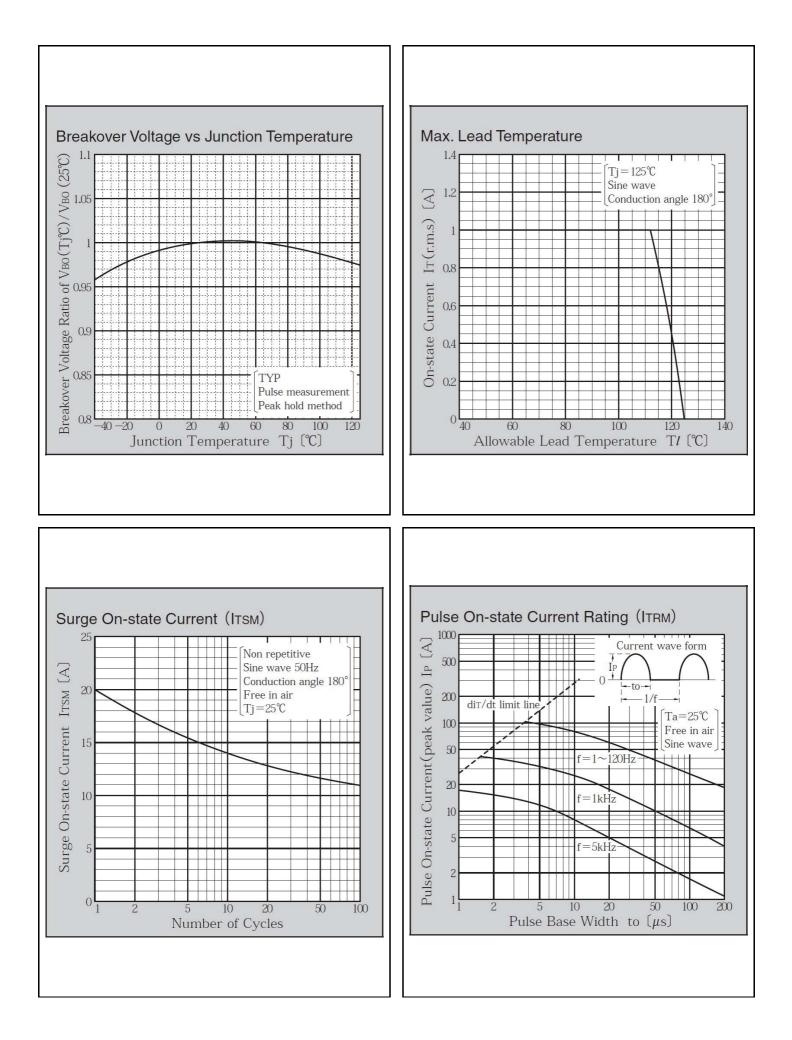
Electrical Characteristics (unless oth	herwise specified : TI=25°C)
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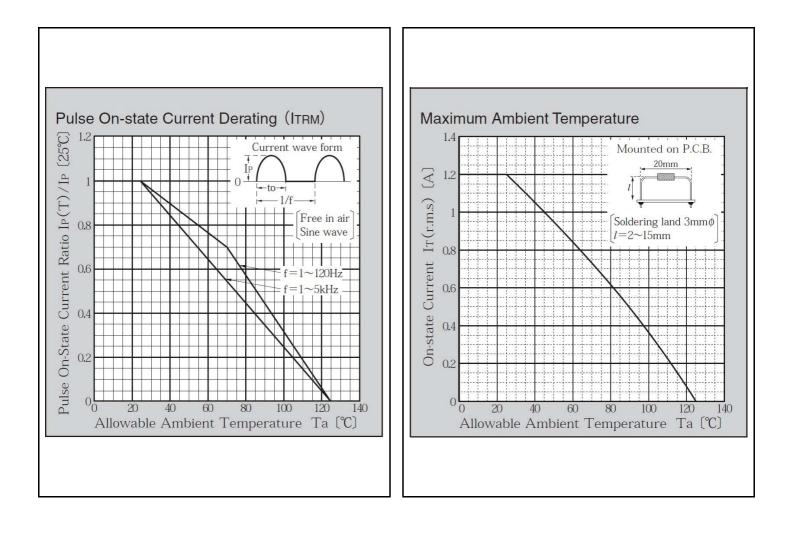
Item	Symbol	Conditions		Ratings		
	Symbol		М	N TYF	MAX	Unit
Breakover voltage	V <sub>BO</sub>	dv/dt=4V/ms, Pulse measurement	11	C	125	V
Off-state current	I <sub>DRM</sub>	VD=90V			10	μA
Breakover current	I <sub>BO</sub>				0.5	mA
Holding current	Ι <sub>Η</sub>			50		mA
On-state voltage	V <sub>T</sub>	IT=1A			1.5	V
Switching Resistance	Rs		0.			kΩ
Thermal Resistance	Rth(j-l)	Junction to lead			15	°C/W

\* :See the original Specifications

## CHARACTERISTIC DIAGRAMS

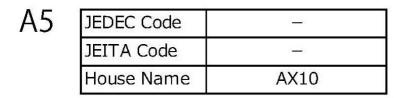


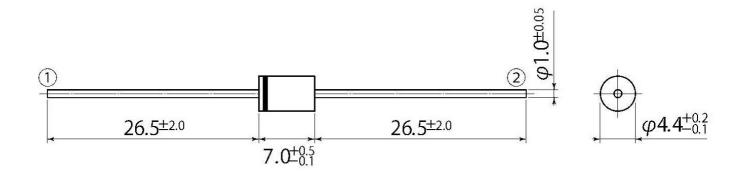




## unit:mm

scale: 2/1





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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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