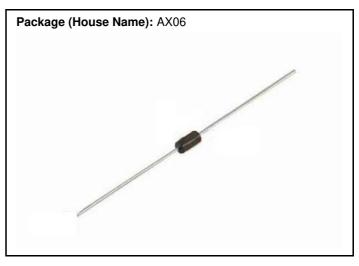
K1V(A)10 SIDACs / Bi-directional (K1V Series) 90V, 10µA

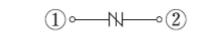
Feature

- · 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 _{DRM} | | 90 | V |
| On-state current (r.m.s.) | I _T (RMS) | TI=109°C, 50Hz sine wave, θ =180° | 1 | А |
| 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 | 15 | А |
| 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 |

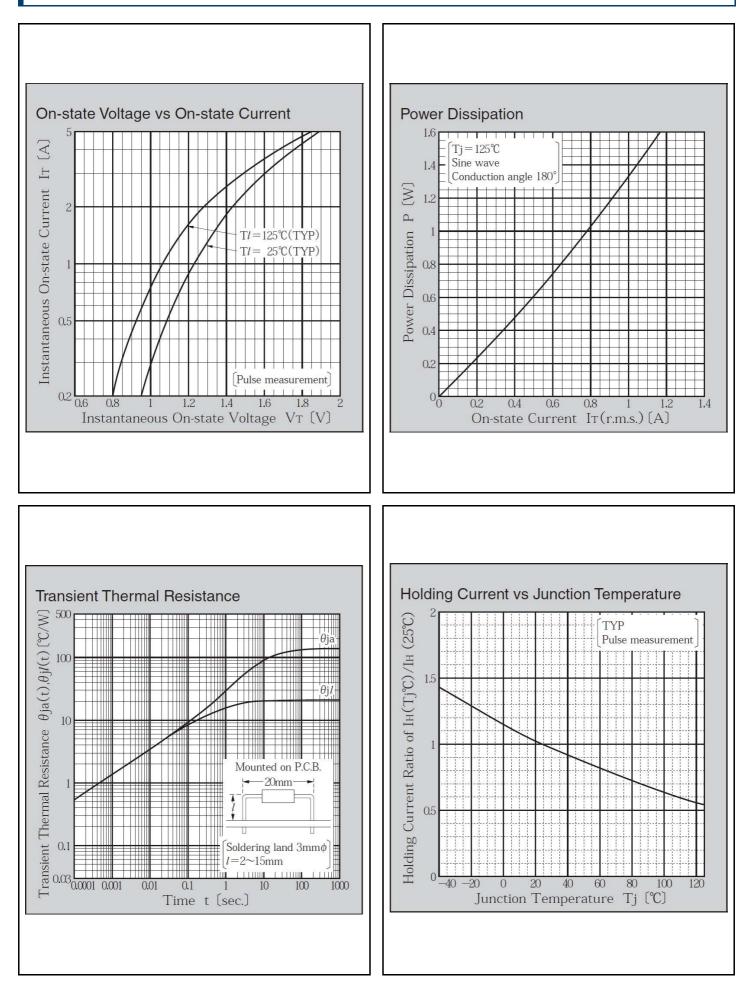
* : See the original Specifications

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

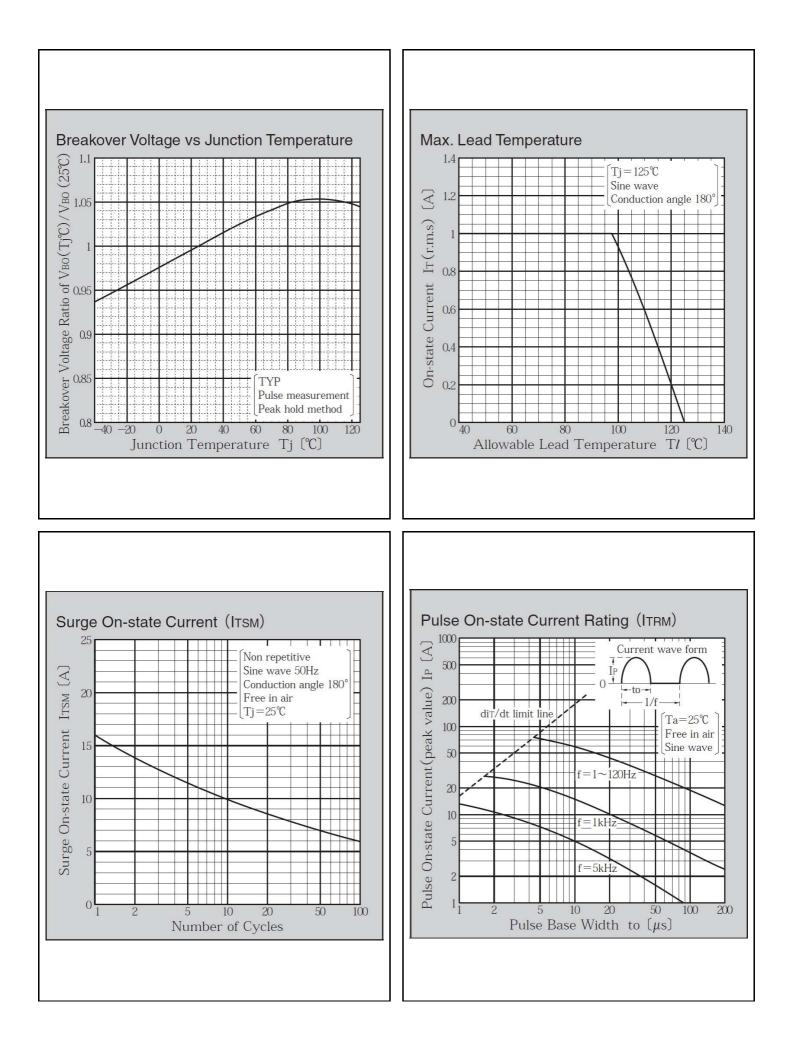
| Item | Symbol | Conditions | | Ratings | | |
|----------------------|------------------|--------------------------------|-----|---------|-----|------|
| | Symbol | | MIN | ТҮР | MAX | Unit |
| Breakover voltage | V _{BO} | dv/dt=4V/ms, Pulse measurement | 95 | | 113 | V |
| Off-state current | I _{DRM} | VD=90V | | | 10 | μA |
| Breakover current | I _{BO} | | | | 0.5 | mA |
| Holding current | Ι _Η | | | 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 |

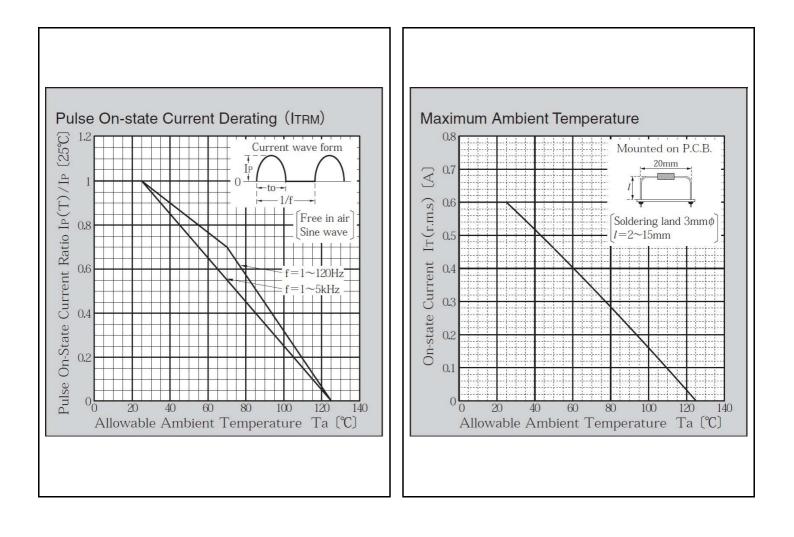
* :See the original Specifications

CHARACTERISTIC DIAGRAMS



3/7

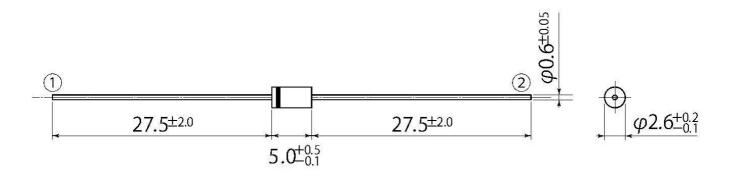




unit:mm

scale: 2/1

| A2 | JEDEC Code | — |
|----|------------|------|
| | JEITA Code | — |
| | House Name | AX06 |



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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Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

[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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