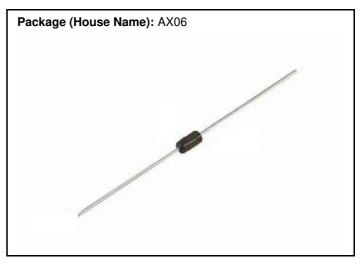
# G1V(A)12C SIDACs / Uni-directional (G1V Series) 100V, 80A

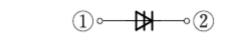
## Feature

- Uni-directional
- · Miniaturized compared to a K1V series
- For pulse generation, DC power with switching operation
- 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)

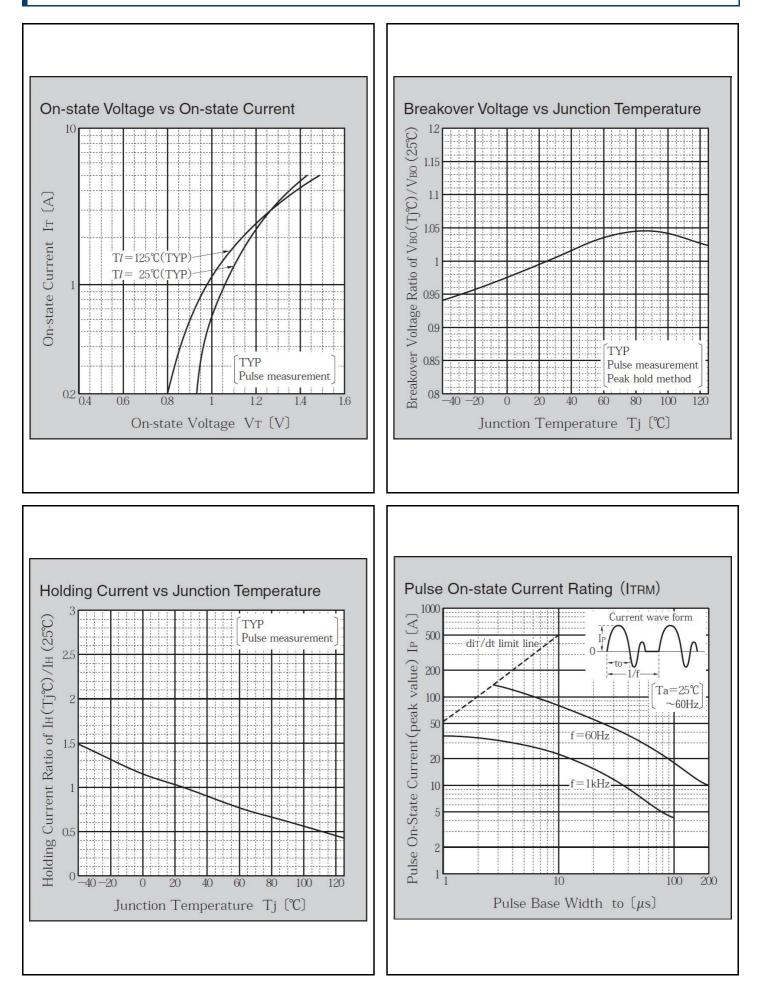
| Item                                      | Symbol              | Conditions                                | Ratings    | Unit |
|---|---------------------|---|------------|------|
| Storage temperrature                      | Tstg                |   | -40 to 125 | °C   |
| Junction temperature                      | Tj                  |   | 125        | °C   |
| Maximum off-state voltage                 | V <sub>DRM(A)</sub> |   | 100        | V    |
| RMS on-state current                      | Ι <sub>Τ</sub>      | TI=98°C, 50Hz sine wave, θ=180°           | 1          | Α    |
| Pulse on-state current                    | I <sub>TRM</sub>    | Ta=25°C, pulse width 10µs, 60Hz sine wave | 80         | Α    |
| Critical rate of rise of on-state current | di <sub>T</sub> /dt |   | 80         | A/µs |

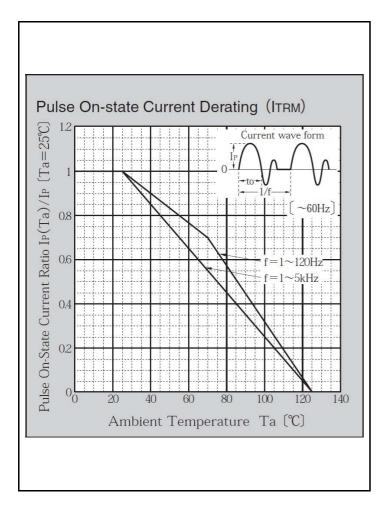
\* : See the original Specifications

| Electrical Characteristics (unless otherwise specified : TI=25°C) |                     |                                |     |         |     |      |  |  |
|---|---------------------|--------------------------------|-----|---------|-----|------|--|--|
| ltem  | Symbol              | Conditions                     |     | Ratings |     |      |  |  |
|   | Symbol              |                                | MIN | ТҮР     | MAX | Unit |  |  |
| Breakover voltage   | V <sub>BO(A)</sub>  | Pulse measurement, dv/dt=4V/ms | 110 |         | 130 | V    |  |  |
| Off-state current   | I <sub>DRM(A)</sub> | VD=100V                        |     |         | 10  | μA   |  |  |
| Breakover current   | I <sub>BO(A)</sub>  |                                |     |         | 0.5 | mA   |  |  |
| Holding current   | I <sub>H(A)</sub>   |                                |     |         | 60  | mA   |  |  |
| Holding current   | I <sub>H(K)</sub>   |                                |     |         | 60  | mA   |  |  |
| On-state voltage  | V <sub>T(A)</sub>   | IT=1A                          |     |         | 1.5 | V    |  |  |
| On-state voltage  | V <sub>T(K)</sub>   | IT=1A                          |     |         | 1.5 | V    |  |  |
| Switching resistance  | R <sub>S(A)</sub>   |                                | 0.1 |         |     | kΩ   |  |  |
| Thermal resistance  | Rth(j-l)            | Junction to lead               |     |         | 20  | °C/W |  |  |

\* : See the original Specifications

# **CHARACTERISTIC DIAGRAMS**

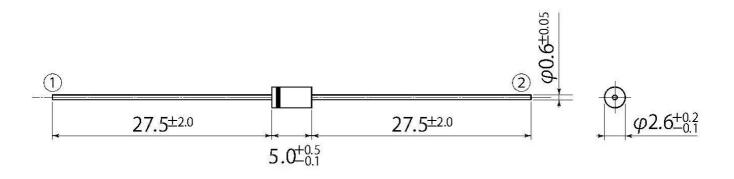




unit:mm

scale: 2/1

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



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### [Specific applications]

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