

# **G1V(A)8C**

# SIDACs / Uni-directional (G1V Series) 70V, 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: Tl=25°C)

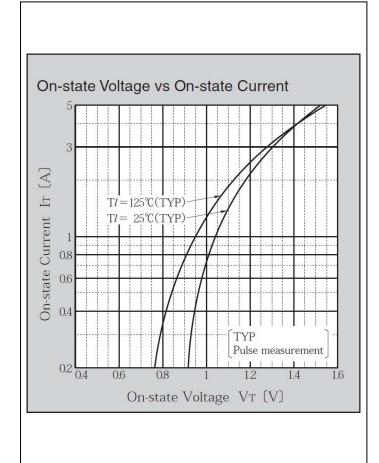
| Item                                      | Symbol              | Conditions                                | Ratings    | Unit |
|---|---------------------|---|------------|------|
| Storage temperrature                      | Tstg                |   | -40 to 125 | °C   |
| Junction temperature                      | Tj                  |   | 125        | °C   |
| Maximum off-state voltage                 | V <sub>DRM(A)</sub> |   | 70         | V    |
| RMS on-state current                      | I <sub>T</sub>      | Tl=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 |

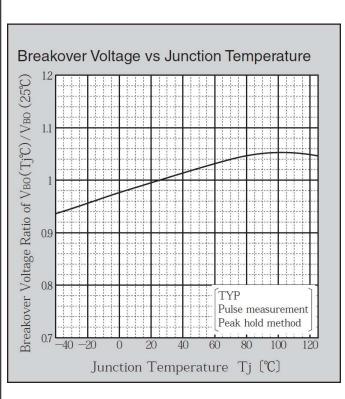
**※** ∶See the original Specifications

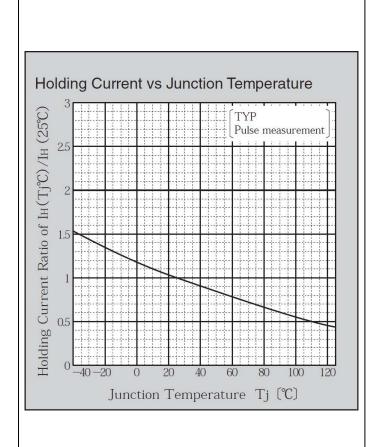
# **Electrical Characteristics** (unless otherwise specified: Tl=25°C)

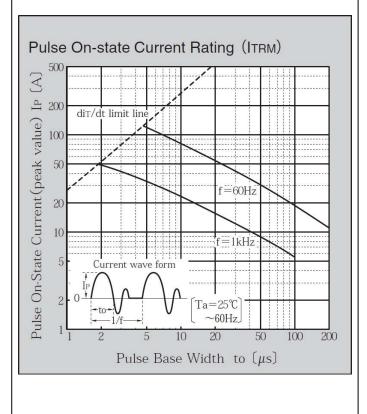
| Item                 | Symbol              | Conditions                     | Ratings |     |     | 11   |
|----------------------|---------------------|--------------------------------|---------|-----|-----|------|
|                      |                     |                                | MIN     | TYP | MAX | Unit |
| Breakover voltage    | V <sub>BO(A)</sub>  | Pulse measurement, dv/dt=4V/ms | 75      |     | 90  | ٧    |
| Off-state current    | I <sub>DRM(A)</sub> | VD=70V                         |         |     | 10  | μΑ   |
| Breakover current    | I <sub>BO(A)</sub>  |                                |         |     | 1   | mA   |
| Holding current      | I <sub>H(A)</sub>   |                                |         |     | 100 | mA   |
| Holding current      | I <sub>H(K)</sub>   |                                |         |     | 100 | mA   |
| On-state voltage     | V <sub>T(A)</sub>   | IT=1A                          |         |     | 1.5 | ٧    |
| On-state voltage     | V <sub>T(K)</sub>   | IT=1A                          |         |     | 1.5 | ٧    |
| Switching resistance | R <sub>S(A)</sub>   |                                | 0.1     |     |     | kΩ   |
| Thermal resistance   | Rth(j-l)            | Junction to lead               |         |     | 20  | °C/W |

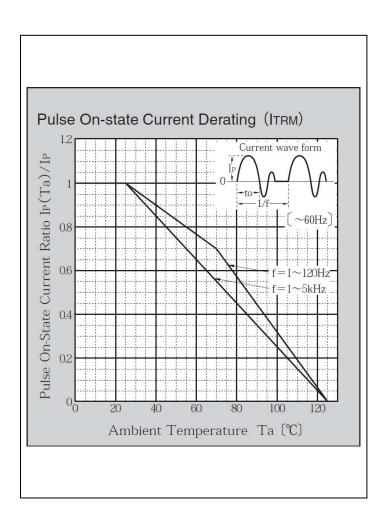
## CHARACTERISTIC DIAGRAMS









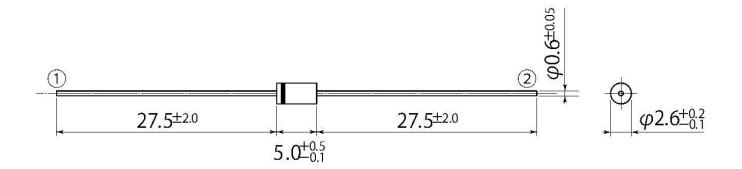


# unit:mm

scale: 2/1

A2

| JEDEC Code | _    |
|------------|------|
| JEITA Code | _    |
| House Name | AX06 |



#### **Notes**

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#### [Special applications]

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#### [Specific applications]

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