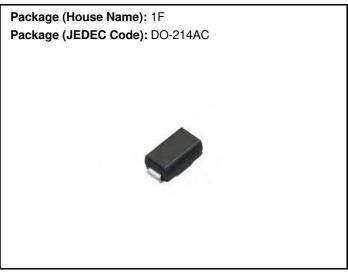
G1VL8C SIDACs / Uni-directional (G1V Series) 70V, 80A

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 : TI=25°C)

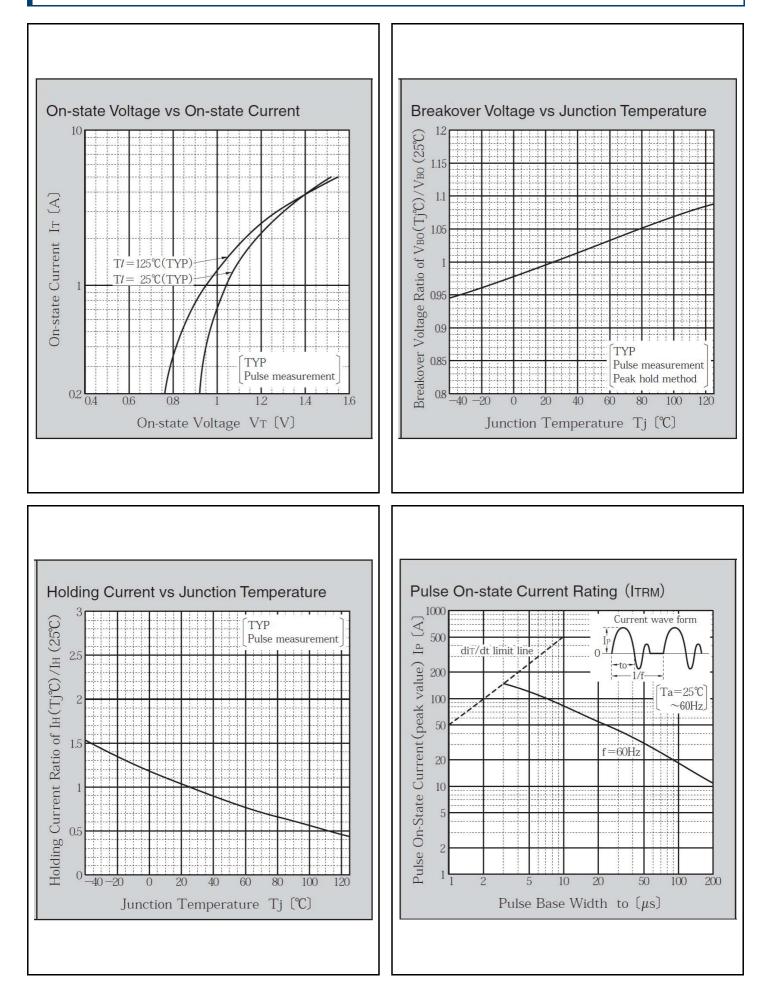
| Item | Symbol | Conditions | Ratings | Unit |
|---|---------------------|---|------------|------|
| Storage temperrature | Tstg | | -40 to 125 | °C |
| Junction temperature | Tj | | 125 | °C |
| Maximum off-state voltage | V _{DRM(A)} | | 70 | V |
| RMS on-state current | Ι _Τ | TI=98°C, 50Hz sine wave, θ=180° | 1 | Α |
| Pulse on-state current | I _{TRM} | Ta=25°C, pulse width 10µs, 60Hz sine wave | 80 | Α |
| Critical rate of rise of on-state current | di _T /dt | | 150 | A/µs |

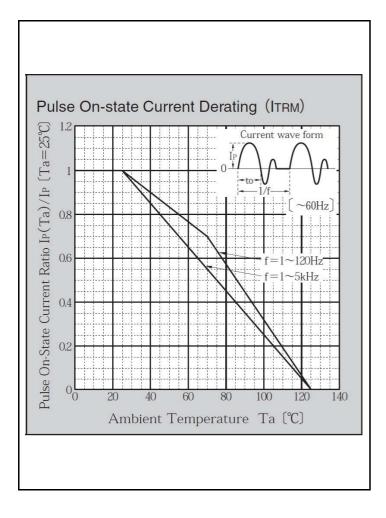
* : See the original Specifications

| Electrical Characteristics (unless otherwise specified : TI=25°C) | | | | | | | | |
|---|---------------------|--------------------------------|-----|---------|-----|------|--|--|
| Item | Symbol | Conditions | | Ratings | | | | |
| | Symbol | | MIN | ТҮР | MAX | Unit | | |
| Breakover voltage | V _{BO(A)} | Pulse measurement, dv/dt=4V/ms | 75 | | 90 | V | | |
| Off-state current | I _{DRM(A)} | VD=70V | | | 10 | μA | | |
| Breakover current | I _{BO(A)} | | | | 1 | mA | | |
| Holding current | I _{H(A)} | | | | 100 | mA | | |
| Holding current | I _{H(K)} | | | | 100 | mA | | |
| On-state voltage | V _{T(A)} | IT=1A | | | 1.5 | V | | |
| On-state voltage | V _{T(K)} | IT=1A | | | 1.5 | V | | |
| Switching resistance | R _{S(A)} | | 0.1 | | | kΩ | | |
| Thermal resistance | Rth(j-l) | Junction to lead | | | 23 | °C/W | | |

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

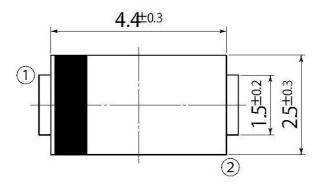


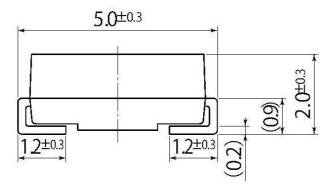


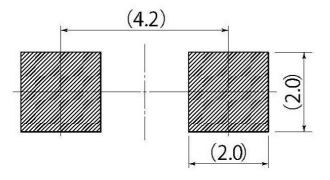
unit:mm

scale: 10/1

| B3 | JEDEC Code | DO-214AC | | |
|----|------------|----------|--|--|
| | JEITA Code | - | | |
| | House Name | 1F | | |

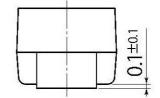






Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



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.

[Standard applications]

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]

Nuclear reactor control systems, aircraft, aerospace equipment, submarine repeaters, life support equipment and systems, etc.

- Although Shindengen continuously endeavors to enhance the quality and reliability of its products, customers are advised to consider and take safety measures in their design, such as redundancy, fire containment and anti-failure, so that personal injury, fires, or societal damages can be prevented.
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