Low VF Glass Passivated Bridge Rectifiers

Reverse Voltage - 800 Volts Forward Current - 25 Amperes

Features

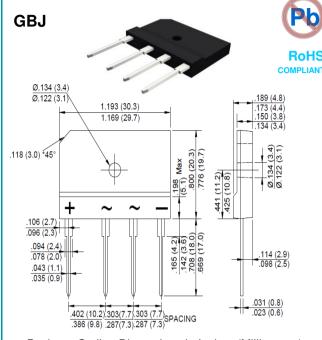
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- •Meet UL flammability classification 94V-0

Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

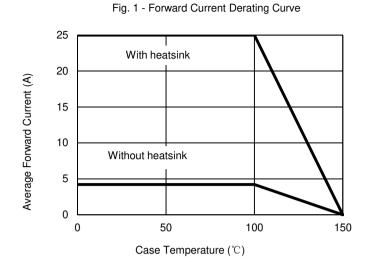
For capacitive load, derate current by 20%.

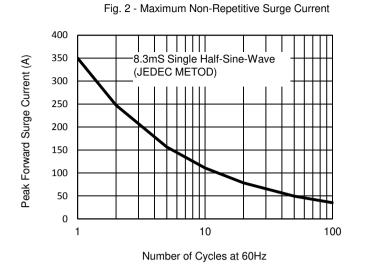
| Characteristics | Symbol | GBJ2508P | Unit |
|--|------------------|-------------|------------------|
| Maximum Repetitive Peak Reverse Voltage | VRRM | 800 | V |
| Maximum RMS Voltage | VRMS | 560 | V |
| Maximum DC Blocking Voltage | VDC | 800 | V |
| Maximum Average Forward (with heatsink Note 2) | Leave | 25.0 | ^ |
| Rectified Current @ Tc=100°C (without heatsink) | I(AV) | 4.2 | Α |
| Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, | IFSM | 350 | А |
| Superimposed on Rated Load (JEDEC Method) | | | A |
| I ² t Rating for Fusing (t<8.3mS) | l ² t | 508 | A ² s |
| Peak Forward Voltage per Diode at12.5A DC | VF | 0.9 | V |
| Maximum DC Reverse Current at Rated @T $_{	extsf{J}}$ =25 $^{\circ}$ C | lr - | 5.0 | |
| DC Bolcking Voltage per Diode @TJ=125℃ | IR | 120 | μΑ |
| Typical Junction Capacitance per Diode (Note1) | CJ | 85 | pF |
| Typical Thermal Resistance to Ambient (Note2) | Reja | 4.5 | |
| Typical Thermal Resistance to case (Note2) | Rejc | 0.6 | °C/ W |
| Typical Thermal Resistance to lead (Note2) | Rejl | 1.5 | |
| Operating Junction Temperature Range | TJ | -55 to +150 | °C |
| Storage Temperature Range | Тѕтс | -55 to +150 | $^{\circ}$ |

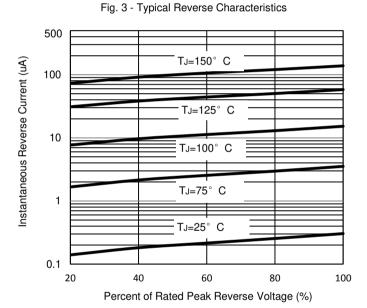
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

- 2.Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only









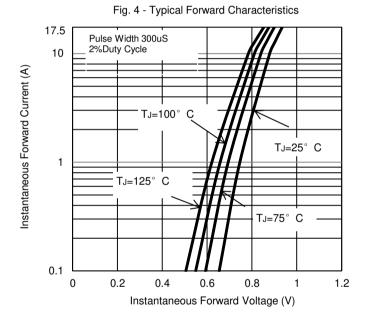
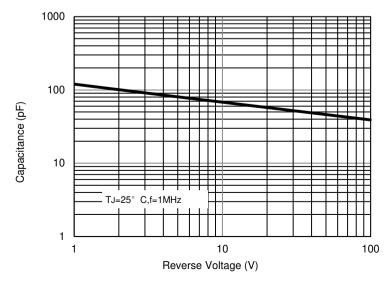


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.



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