

GBJ25005 THRU GBJ2510

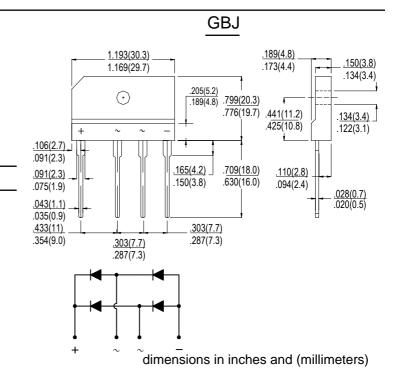
SINGLE PHASE 25.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

- · Glass passivated die construction
- · Low forward voltage drop
- · High current capability
- · High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- · Case: Molded plastic, GBJ
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



Maximum Ratings and Electrical Characteristics

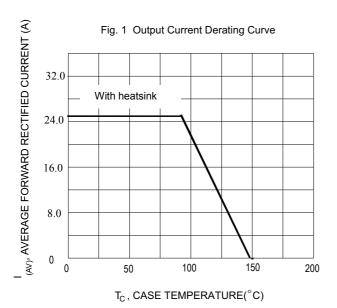
Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

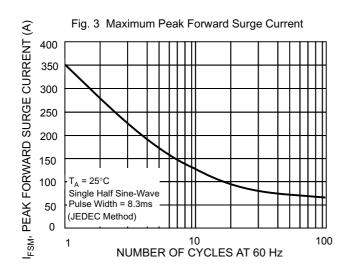
| TYPE NUMBER | SYMBOL | GBJ 25005 | GBJ 2501 | GBJ 2502 | GBJ 2504 | GBJ 2506 | GBJ 2508 | GBJ 2510 | UNITS |
|---|---------|--------------|-------------|-------------|-------------|-------------|-------------|------------------|--------|
| Peak Repetitive Reverse Voltage | Vrrm | | | | | | | | |
| Working Peak Reverse Voltage | Vrwm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| DC Blocking Voltage | VDC | | | | | | | | |
| RMS Reverse Voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1)@T $_{c}$ =90 $^{\circ}$ C | IF(AV) | 25.0 | | | | | | А | |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | Ifsm | 350 | | | | | | | А |
| I ² t Rating for Fusing (t < 8.3ms) | ²t | 508.375 | | | | | | A ² s | |
| Forward Voltage per element @IF=12.5A @IF=25A | Vfm | 1.0 1.1 | | | | | | | V |
| Peak Reverse Current @TJ =25 ℃ At Rated DC Blocking Voltage @TJ =125 ℃ | lĸ | 5.0 200 | | | | | | | uA |
| Dielectric Strength | Vids | 2500 | | | | | | | V |
| The proposed installation torque Max torque | Tor | 5.0 8.0 | | | | | | | Kgf.cm |
| Typical Junction Capacitance (Note 2) | CJ | 110 | | | | | | | pF |
| Between junction and ambient, Without heatsink | Reja | 22 | | | | | | | °C/W |
| Between junction and case, With heatsink | Rejc | 1.0 | | | | | | | |
| Operating and Storage Temperature Range | TJ,Tsтg | -55to+150 | | | | | | | °C |

Note: 1. Unit case mounted on aluminum piate heatsink

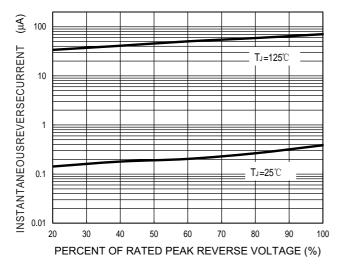
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

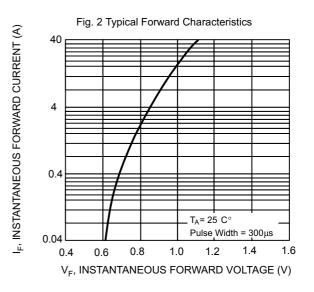




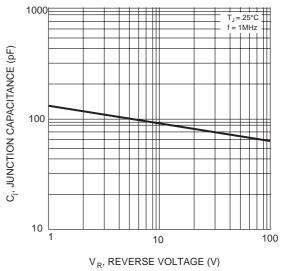














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