



# GBJ2501 THRU GBJ2510

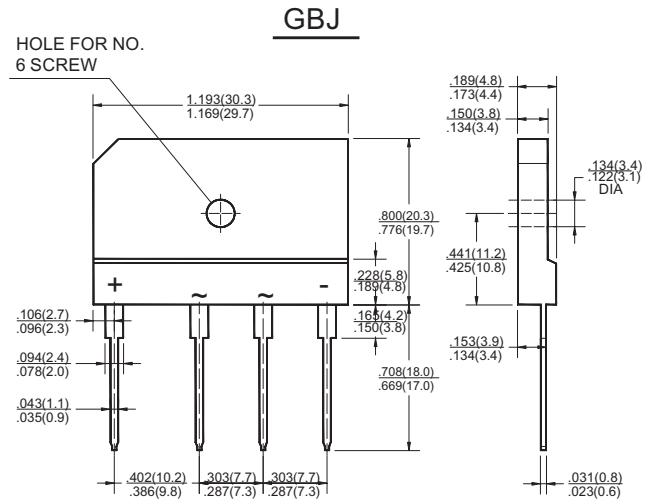
**BRIDGE RECTIFIER**  
 Reverse Voltage: 100 to 1000 Volts  
 Forward Current: 25.0 Amps

## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

## MECHANICAL DATA

- Case: GBJ molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any



Dimensions in inches and (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%.)

|  | Symbols            | GBJ2501     | GBJ2502 | GBJ2504 | GBJ2506 | GBJ2508 | GBJ2510 | Units            |
|--|--------------------|-------------|---------|---------|---------|---------|---------|------------------|
| Maximum Recurrent Peak Reverse Voltage   | $V_{RRM}$          | 100         | 200     | 400     | 600     | 800     | 1000    | Volts            |
| Maximum RMS Voltage  | $V_{RMS}$          | 70          | 140     | 280     | 420     | 560     | 700     | Volts            |
| Maximum DC Blocking Voltage  | $V_{DC}$           | 100         | 200     | 400     | 600     | 800     | 1000    | Volts            |
| Maximum Average Forward Rectified Current  | $I_{(AV)}$         | 25.0        |         |         |         |         |         | Amp              |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | $I_{FSM}$          | 300         |         |         |         |         |         | Amps             |
| Rating for fusing (t: 8.3ms)   | $I^2t$             | 373         |         |         |         |         |         | A <sup>2</sup> s |
| Maximum Instantaneous Forward Voltage at 12.5 A DC   | $V_F$              | 1.1         |         |         |         |         |         | Volts            |
| Maximum DC Reverse Current at rated DC blocking voltage  | $T_A=25^{\circ}C$  | 10          |         |         |         |         |         | $\mu A$          |
|  | $T_A=125^{\circ}C$ | 500         |         |         |         |         |         | $\mu A$          |
| Typical thermal resistance   | $R_{\theta JA}$    | 22          |         |         |         |         |         | C/W              |
|  | $R_{\theta JC}$    | 1.0         |         |         |         |         |         |                  |
| Operating temperature range  | $T_J$              | -55 to +150 |         |         |         |         |         | C                |
| Storage temperature range  | $T_{STG}$          | -55 to +150 |         |         |         |         |         | C                |

# RATINGS AND CHARACTERISTIC CURVES GBJ2501 THRU GBJ2510

FIG.1-MAXIMUM FORWARD SURNGE CURRENT

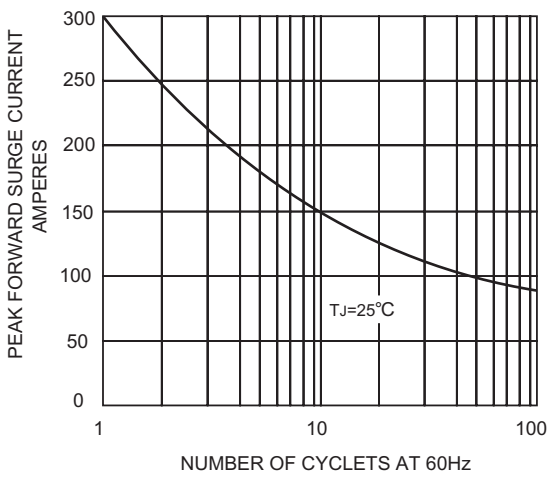


FIG.2-FORWARD CURRENT DERATING CURVE

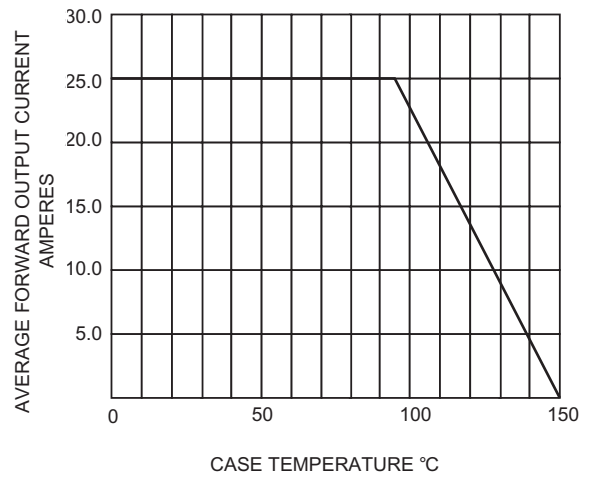


FIG.3-TYPICAL FORWARD CHARACTERISTICS

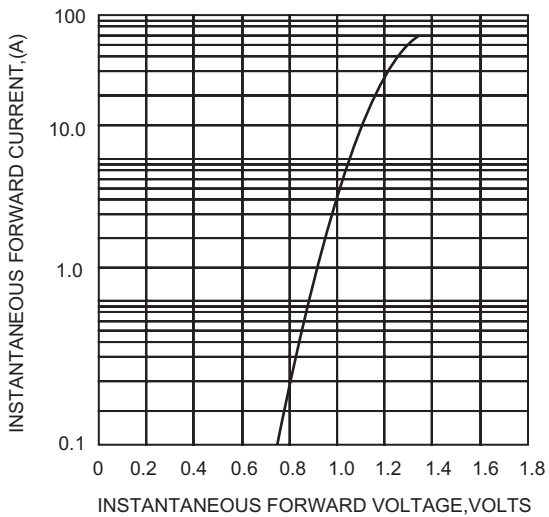


FIG.4 -TYPICAL REVERSE CHARACTERISTICS

