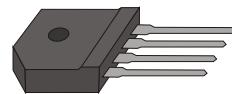


GBJ2502-G Thru. GBJ2508-G

Reverse Voltage: 200 to 800V
RoHS Device

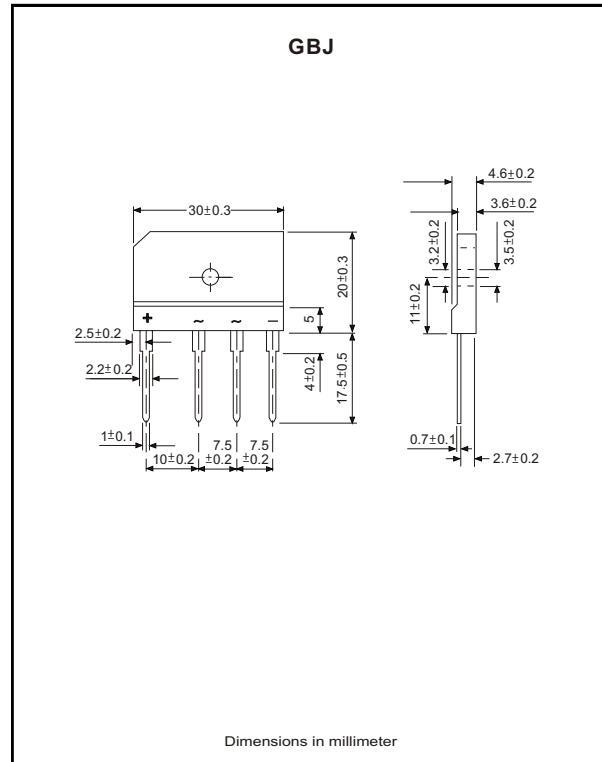


Features

- Plastic package has underwriters laboratory Flammability classification 94V-0.
- Glass passivated chip junction.
- High case dielectric with standing voltage of 2500 V_{RMS}.
- High surge current capability.
- Ideal for printed circuit boards.
- High temperature soldering guaranteed: 260°C/10sec, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension.

Mechanical Data

- Case: 5S Molded Plastic body
- Terminal: Plated leads solderable per MIL-STD-750, method 2026.
- Mounting position : Any (Note 3).
- Mounting torque: 8 in-lbs max.
- Weight: 0.26 ounce, 7.0 grams.



Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GBJ2502-G	GBJ2504-G	GBJ2506-G	GBJ2508-G	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	V
Maximum average forward output current @T _c =107°C @T _A =25°C	I _(AV)			25 3.5		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}			350		A
Maximum instantaneous forward voltage drop per element at 12.5A DC	V _F			1.05		V
Maximum reverse current at rated DC blocking voltage T _A =25°C T _A =125°C	I _R			10 350		µA
Typical thermal resistance	R _{θJA}			22		°C/W
Operating and storage temperature range	T _J , T _{STG}			-55 ~ +150		°C

Note:

1. Unit case mounted on Al plate heatsink.
2. Unit mounted on P.C.B. with 0.5×0.5" (12×12mm) copper pads and 0.375"(9.5mm) lead length.
3. Recommended mounting position is to bolt down on heatsink with silicon thermal compound for maximum heat transfer with #6 screws.

Glass Passivated Single Phase Bridge Rectifiers

Rating and Characteristics Curves (GBJ2502-G Thru. GBJ2508-G)

Fig. 1 Output Rectified Current Derating Curve

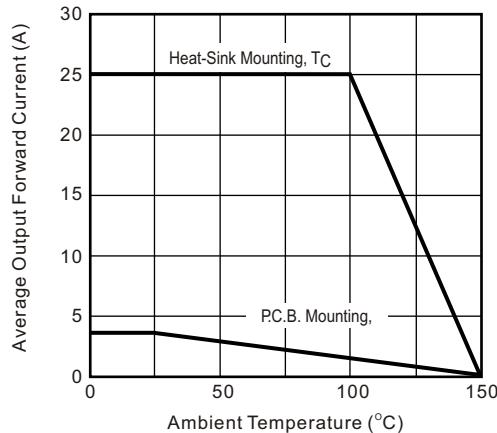


Fig. 2 Max. Non-repetitive Forward Surge Current Per Leg

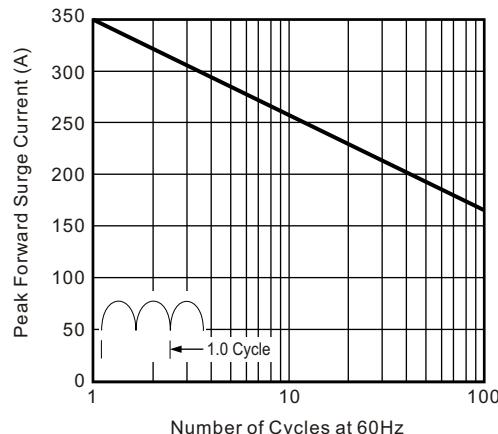


Fig. 3 Typical Forward Characteristics Per Leg

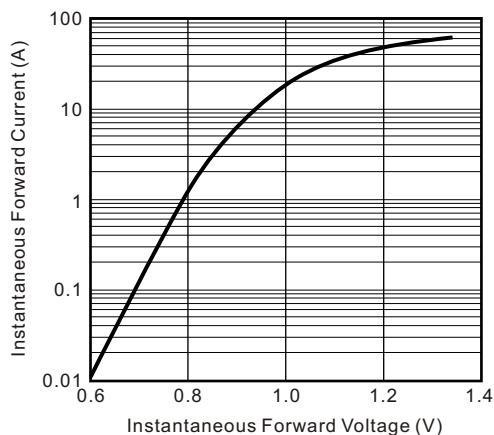


Fig. 4 Typical Reverse Characteristics Per Leg

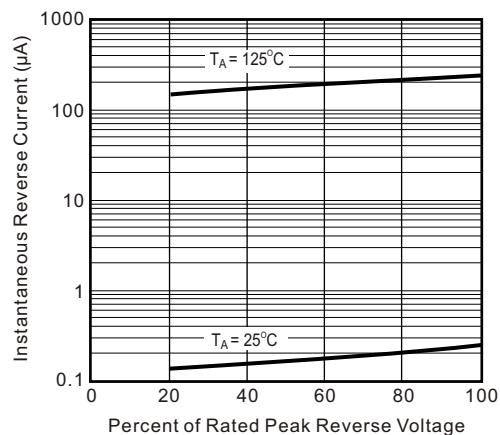


Fig. 5 Typical Junction Capacitance Per Leg

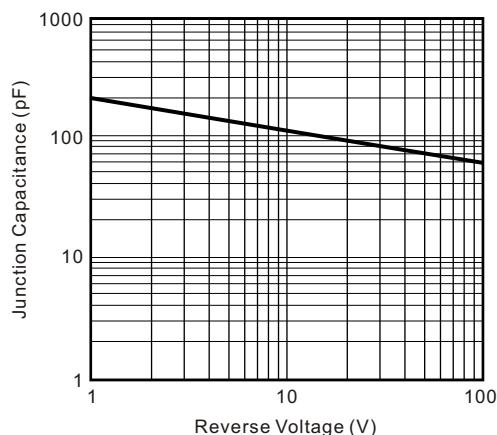


Fig. 6 Typical Transient Thermal Impedance

