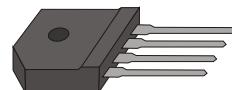


## GBJ1502-G Thru. GBJ1508-G

Reverse Voltage: 200 to 800V  
RoHS Device

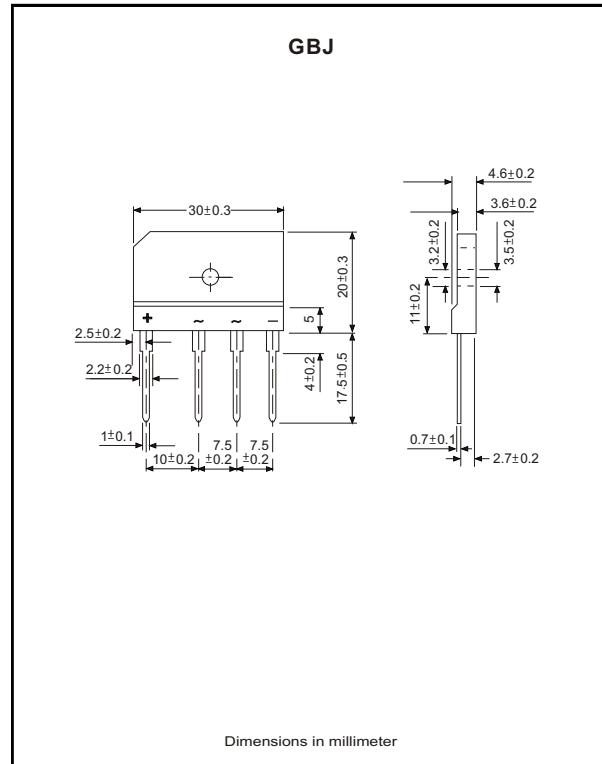


### Features

- Plastic package has underwriters laboratory Flammability classification 94V-0.
- Glass passivated chip junction.
- High case dielectric with standing voltage of 2500 V<sub>RMS</sub>.
- 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	GBJ1502-G	GBJ1504-G	GBJ1506-G	GBJ1508-G	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	400	600	800	V
Maximum RMS voltage	V <sub>RMS</sub>	140	280	420	560	V
Maximum DC blocking voltage	V <sub>DC</sub>	200	400	600	800	V
Maximum average forward output current @T <sub>c</sub> =107°C @T <sub>A</sub> =25°C	I <sub>F(AV)</sub>		15 3.5			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>		240			A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t		60			A <sup>2</sup> sec
Maximum instantaneous forward voltage drop per element at 7.5A DC	V <sub>F</sub>		1.05			V
Maximum reverse current at rated DC blocking voltage T <sub>A</sub> =25°C T <sub>A</sub> =125°C	I <sub>R</sub>		10 250			µA
Typical thermal resistance per leg	R <sub>θJA</sub>		22			°C/W
Operating and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>		-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

**COMCHIP**  
SMD Diodes Specialist

## Rating and Characteristics Curves (GBJ1502-G Thru. GBJ1508-G)

Fig. 1 Output Rectified Current Derating Curve

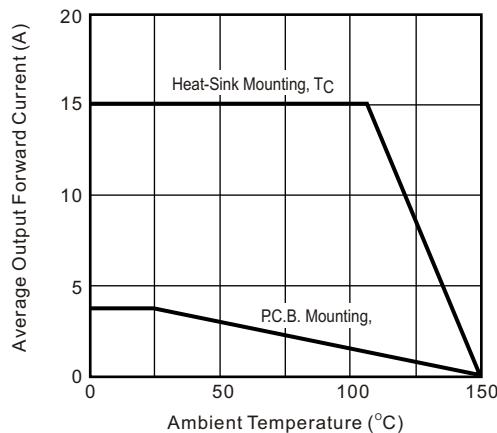


Fig. 2 Max. Non-repetitive Forward Surge Current Per Leg

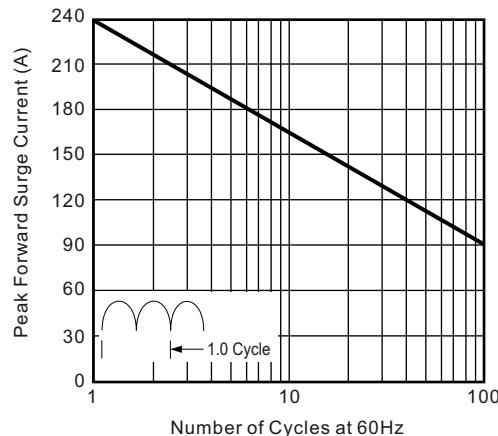


Fig. 3 Typical Forward Characteristics Per Leg

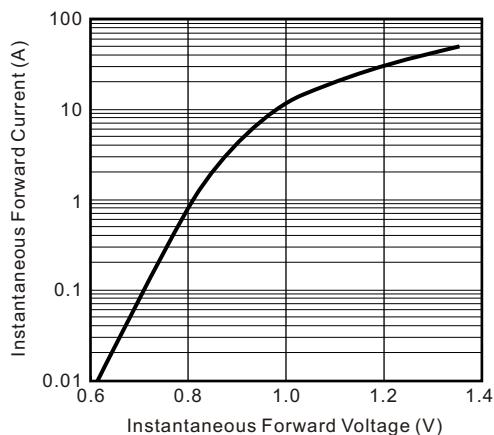


Fig. 4 Typical Reverse Characteristics Per Leg

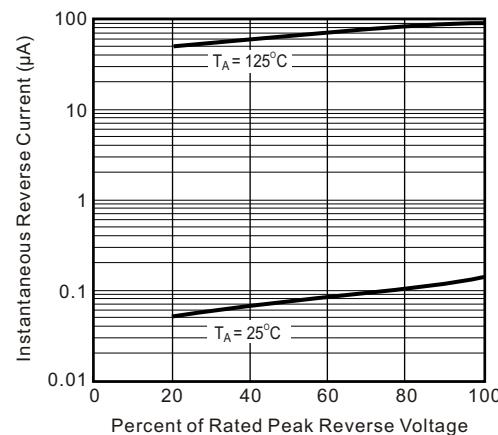


Fig. 5 Typical Junction Capacitance Per Leg

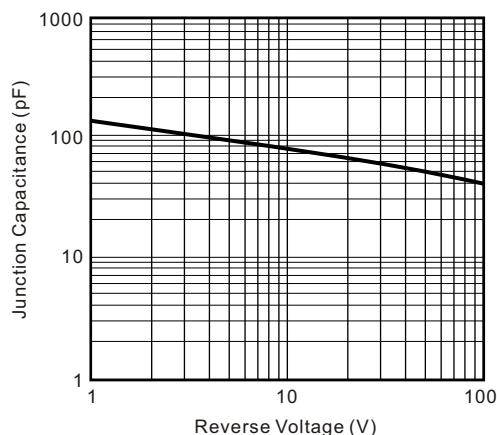


Fig. 6 Typical Transient Thermal Impedance

