



GBJ2502 THRU GBJ2510

玻璃钝桥式整流器

GLASS PASSIVATED BRIDGE RECTIFIERS

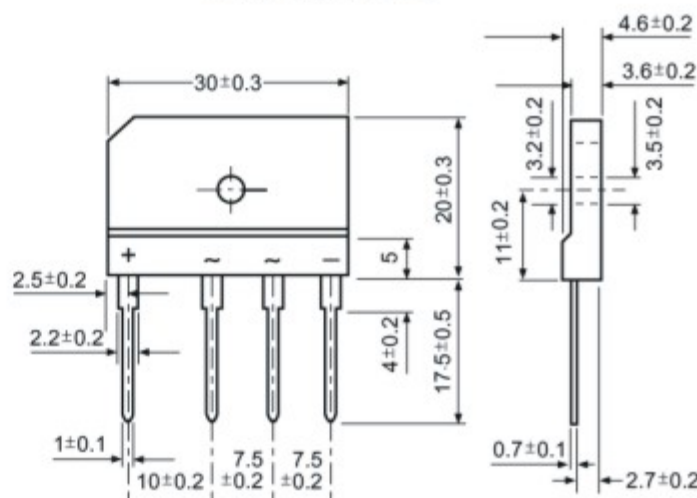
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- This series is UL listed under Recognized Component Index, file number E54214.
- Glass passivated chip junctions
- High case dielectric strength of 2500 V_{RMS}.
- High surge current capability
- Ideal for printed circuit boards

MECHANICAL DATA

- Case: 5S Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750 method 2026
- High temperature soldering guaranteed:
260°C /10 seconds, 0.375 (9.5mm) lead length,
5 lbs. (2.3 kg) tension
- Mounting position: Any (Note 3)
- Mounting Torque: 8 in-lbs max.
- Weight: 0.26 ounce, 7.0gram

Case Style GBJ



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	Volts
Maximum Average Forward Output Rectified Current	T _C = 107°C T _A = 25°C I _{F(AV)}	25.0					Amps
Peak Forward Surge Current	I _{FSM}	350					Amps
8.3ms single half sine - wave superimposed on rated load (JEDEC method)							
Maximum Instantaneous Forward Voltage drop per leg at 12.5A	V _F	1.05					Volts
Maximum DC Reverse Current at rated DC blocking voltage per leg	T _A = 25°C T _A = 125°C I _R	10					μA
Typical Thermal Resistance per leg	R _{θJA}	22					°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	(-55 TO +150)					°C

NOTES:

1. Unit case mounted on Al plate heatsink.
2. Units mounted on P.C.B. with 0.5 * 0.5" (12 * 12mm) copper pads an 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

RATINGS AND CHARACTERISTICS CURVE GBJ2502 THRU GBJ2510

Fig. 1 – Derating Curve Output Rectified Current

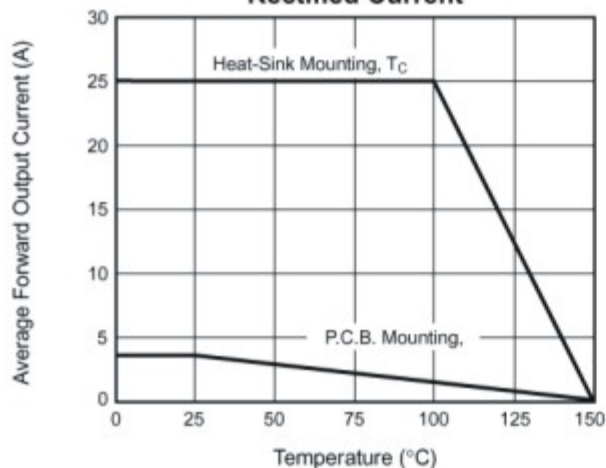


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

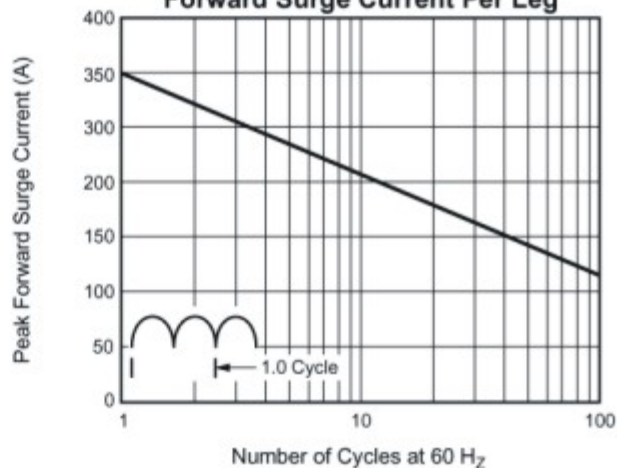


Fig. 3 – Typical Forward Characteristics Per Leg

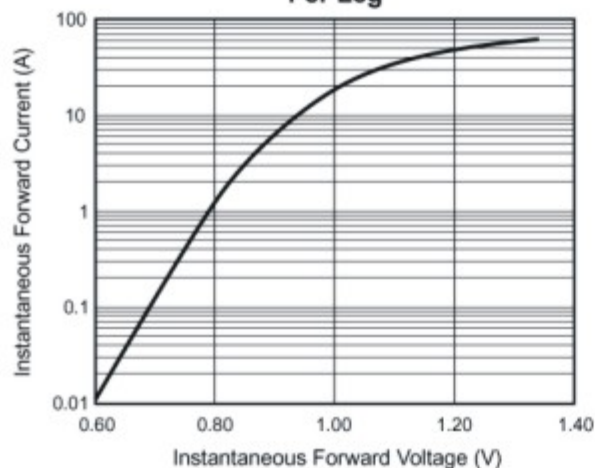


Fig. 4 – Typical Reverse Characteristics Per Leg

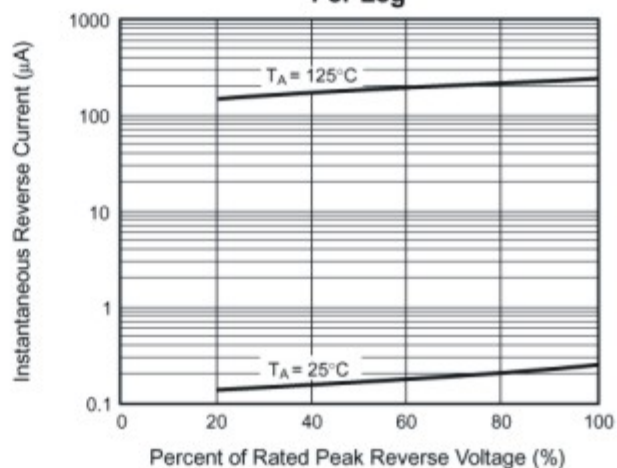


Fig. 5 – Typical Junction Capacitance Per Leg

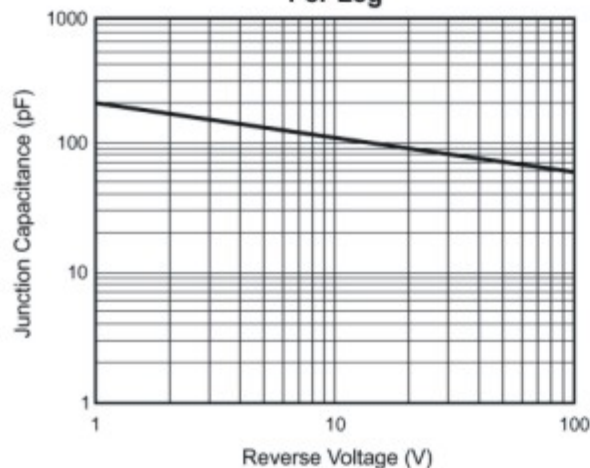


Fig. 6 – Typical Transient Thermal Impedance

