



GBU802 THRU GBU810

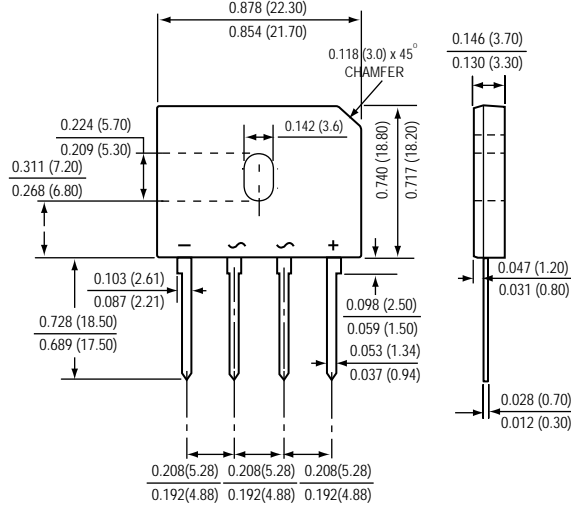
GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 8.0 Amperes



GBU



Polarity shown on front side of case, positive lead by beveled corner

*Dimensions in inches and (millimeters)

FEATURES

- * Glass passivated chip junctions
- * Compliance to RoHS product
- * Plastic Material has Underwriters Laboratory Flammability Classification 94V-0
- * High surge current capability
- * Ideal for Printed Circuit Boards
- * High temperature soldering guaranteed : 260°C/10 seconds

MECHANICAL DATA

Case : Molded Plastic

Terminals : Tin Plated, solderable per
MIL-STD-750, Method 2026

Polarity : As marked on Body

Weight : 4.0 grams (approx)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GBU802	GBU804	GBU806	GBU808	GBU810	UNITS
Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	200	400	600	800	1000	Volts
Maximum average forward rectified current Tc=100°C (NOTE 1,2)	I (AV)	8.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					Amps
Maximum instantaneous forward voltage at 4.0 A	VF	1.0					Volts
Maximum DC reverse current @TA=25°C at rated DC blocking voltage @TA=125°C	IR	5 500					uA
Typical Junction Capacitance per element (NOTE 4)	CJ	60					pF
Typical thermal resistance per leg (NOTE 3)	R θJA R θJC	21.0 2.2					°C / W
Operating junctionStorage temperature range	TJ,TSTG	-55 to +150					°C

- NOTES : (1) Unit case mounted on Al plate heat-sink
 (2) Unit mounted on P.C.B. without heat-sink
 (3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw heat-sink size : 8.2 x 8.2 x 0.3cm)
 (4) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES GBU802 THRU GBU810

FIG.1 - FORWARD CURRENT DERATING CURVE

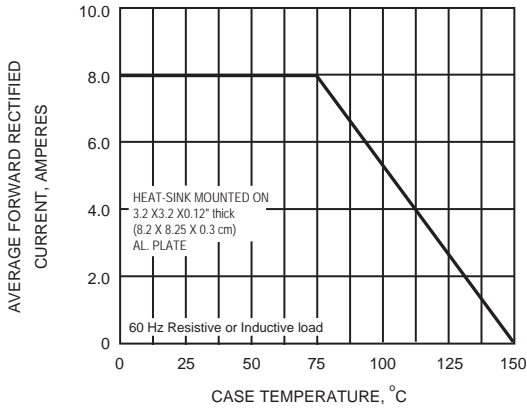


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

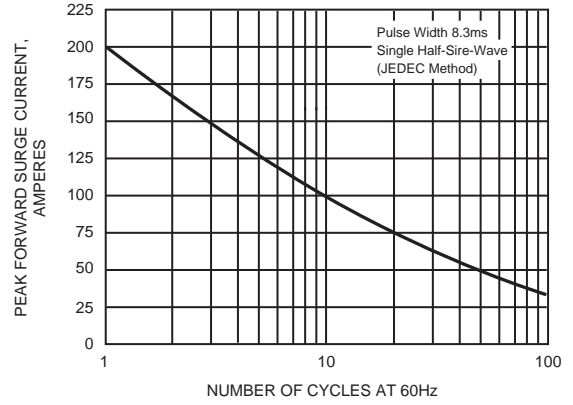


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

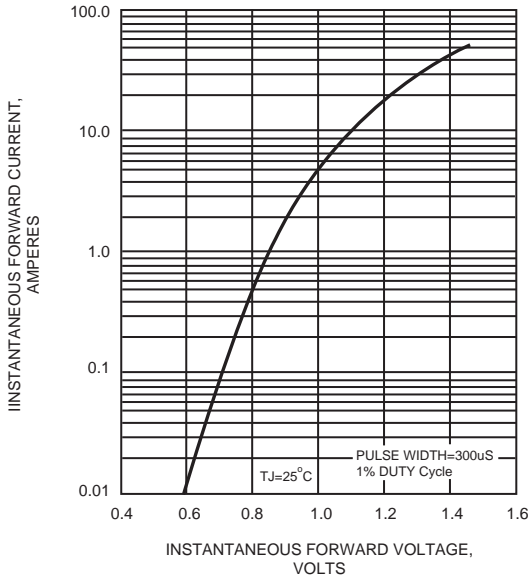


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

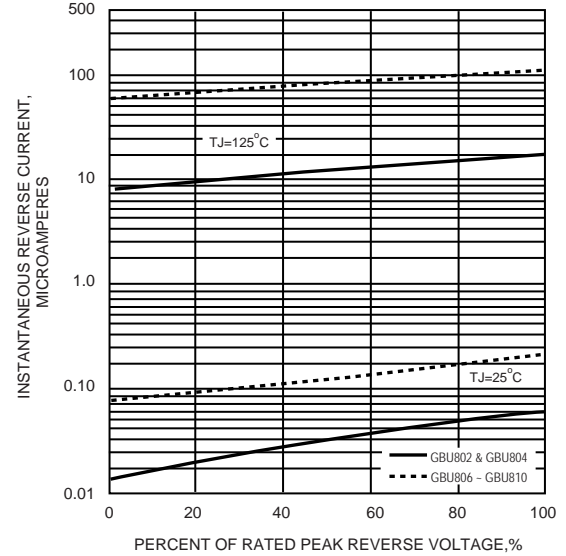


FIG.5 - TYPICAL JUNCTION CAPACITANCE

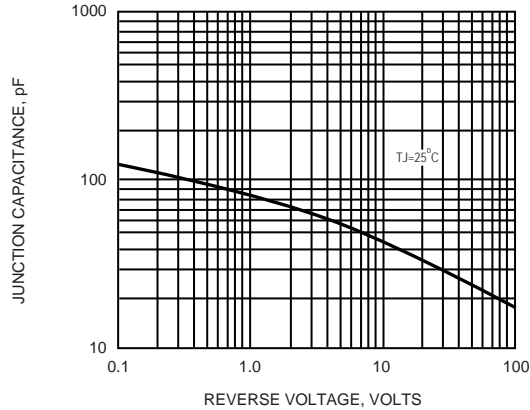


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

