



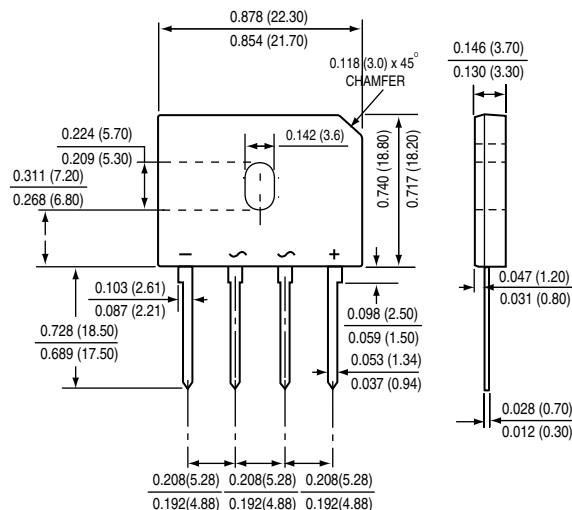
GBU802 THRU GBU810

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	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 rectified current T _c =100°C (NOTE1,2)	I (AV)	8.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200					Amps
Maximum instantaneous forward voltage at 4.0 A	V _F	1.0					Volts
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R	5 500					uA
Typical Junction Capacitance per element (NOTE 4)	C _J	60					pF
Typical thermal resistance per leg (NOTE 3)	R _{θJA} R _{θJC}	21.0 2.2					°C / W
Operating junctionStorage temperature range	T _J ,T _{STG}	-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

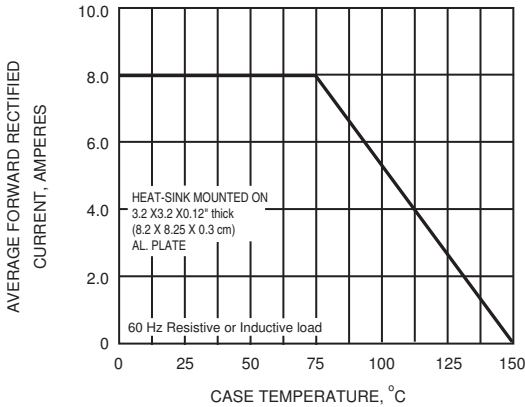


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

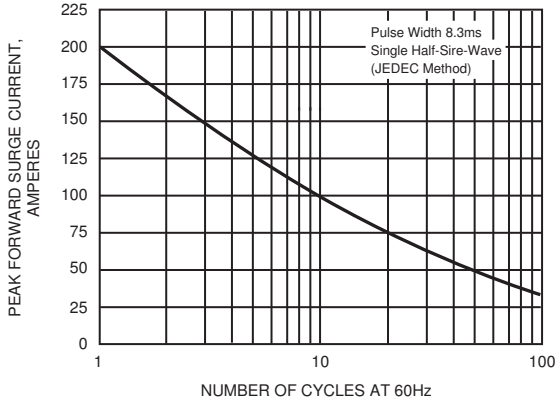


FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

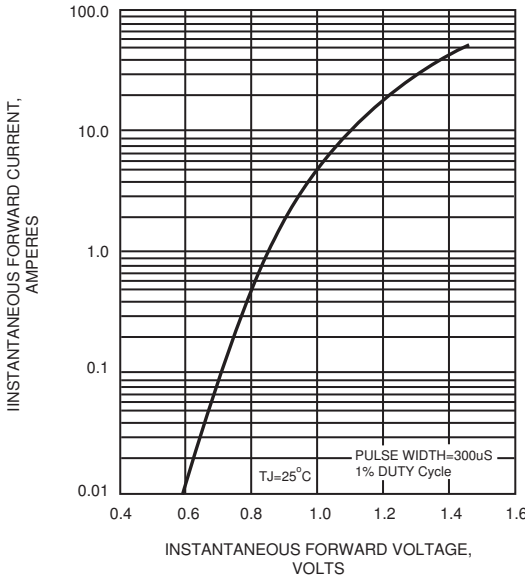


FIG.4 - TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

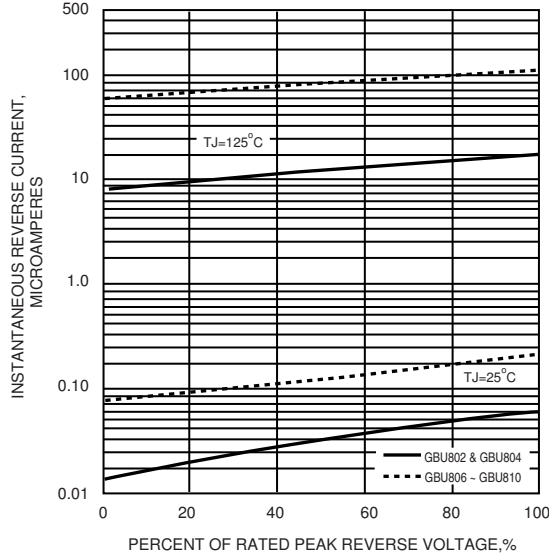


FIG.5 - TYPICAL JUNCTION CAPACITANCE

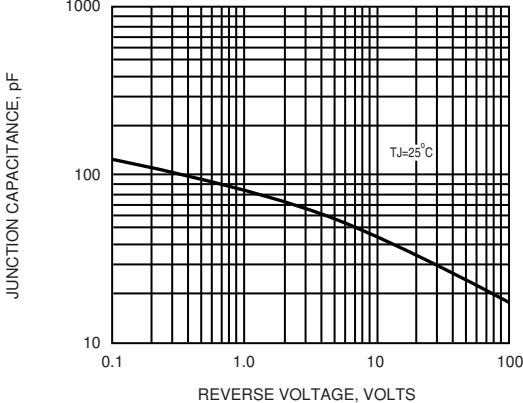


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

