



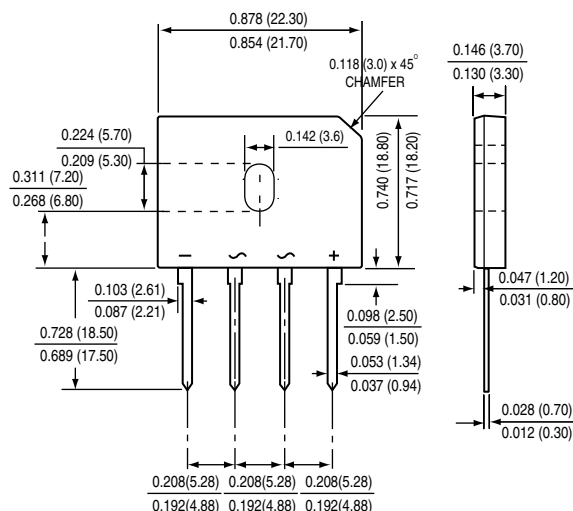
GBU402 THRU GBU410

GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 4.0 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	GBU402	GBU404	GBU406	GBU408	GBU410	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 (NOTE 1,2)	I (AV)	4.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150					Amps
Maximum instantaneous forward voltage at 2.0 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	45					pF
Typical thermal resistance per leg (NOTE 3)	R _{θJA} R _{θJC}	22.0 4.2					°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 : 6.35 x 3.5 x 0.15cm)
(4) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES GBU402 THRU GBU410

FIG.1 - FORWARD CURRENT DERATING CURVE

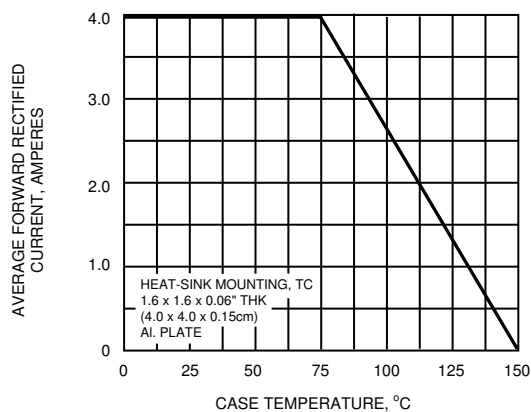


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

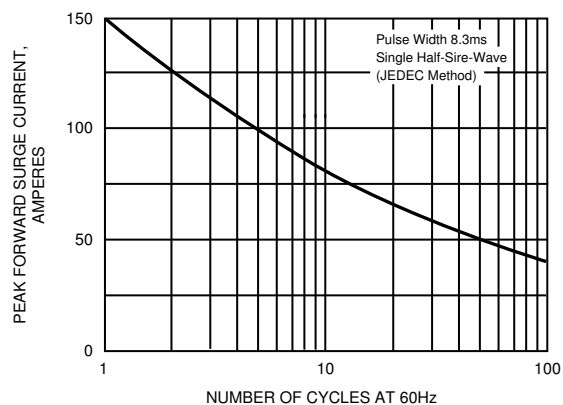


FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

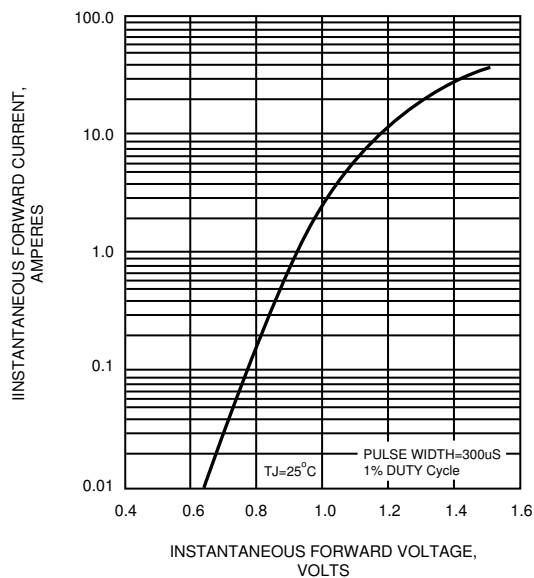


FIG.4 - TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

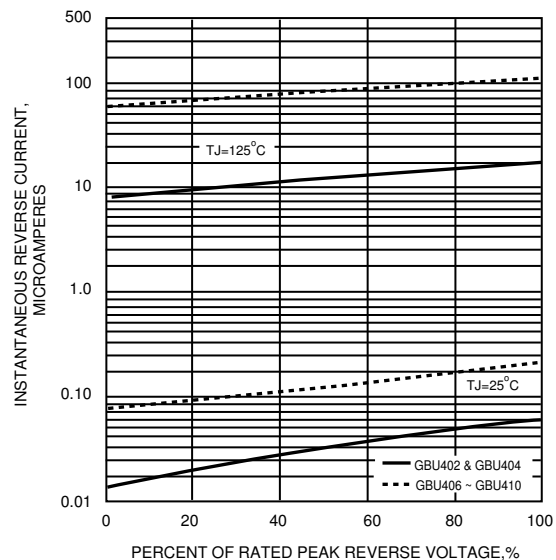


FIG.5 - TYPICAL JUNCTION CAPACITANCE

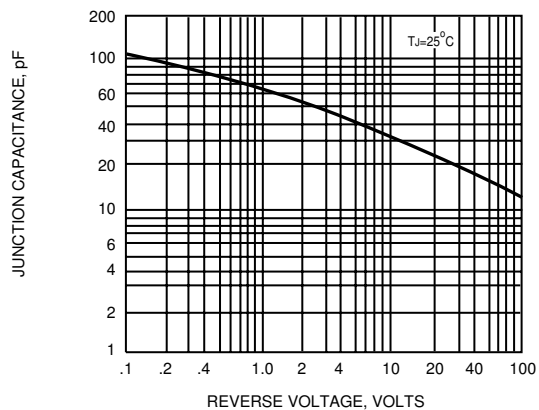


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

