



# GBU1502 THRU GBU1510

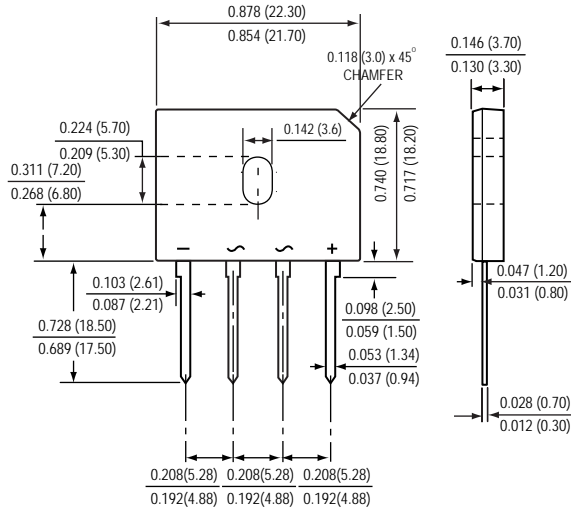
## GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 15 Amperes



### GBU



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

\*Dimensions in inches and (millimeters)

### FEATURES

- \* Glass passivated chip junctions
- \* Lead free product , compliance to RoHs
- \* 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

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510	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 (with heatsink Note 2)	I (AV)	15					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250					Amps
Maximum instantaneous forward voltage at 7.5 A	VF	1.1					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 1)	CJ	70					pF
Typical thermal resistance (Note 2)	R JC	2.2					°C / W
Operating temperature range	TJ	-55 to +150					°C
Storage temperature range	TSTG	-55 to +150					°C

NOTES : (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) Device mounted on 100mm\*1.6mm cu plate heatsink.

# RATINGS AND CHARACTERISTIC CURVES GBU1502 THRU GBU1510

FIG.1 - FORWARD CURRENT DERATING CURVE

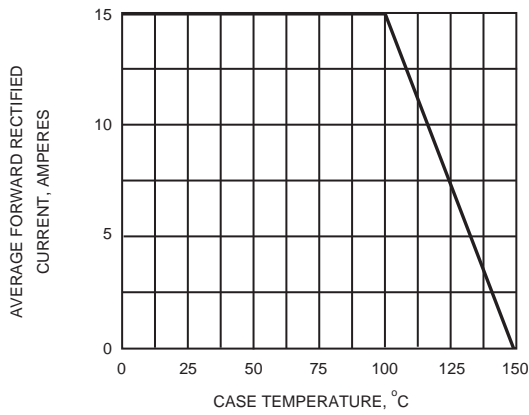


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

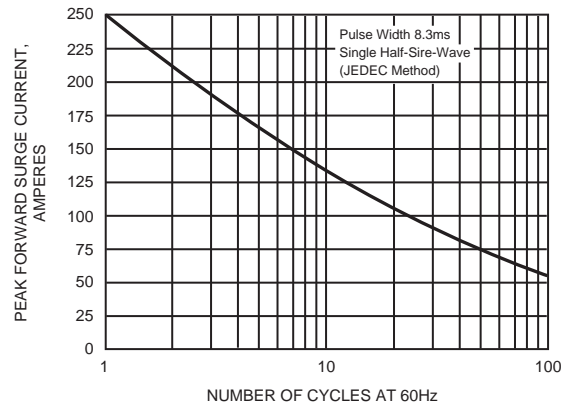


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

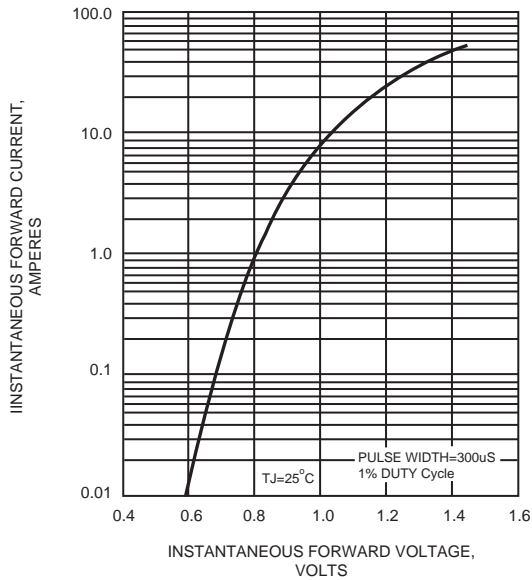


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

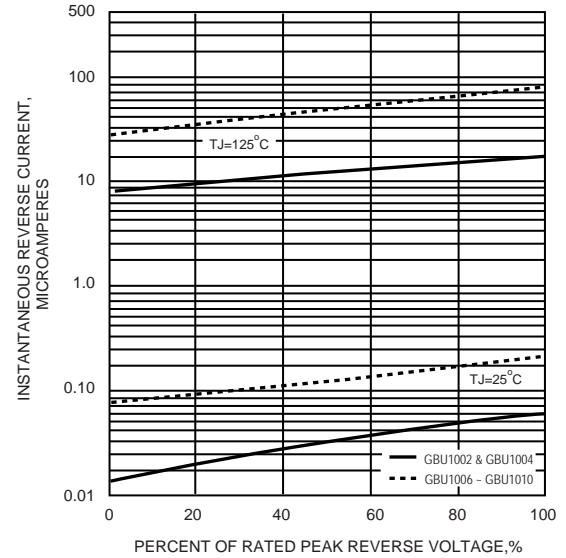


FIG.5 - TYPICAL JUNCTION CAPACITANCE

