

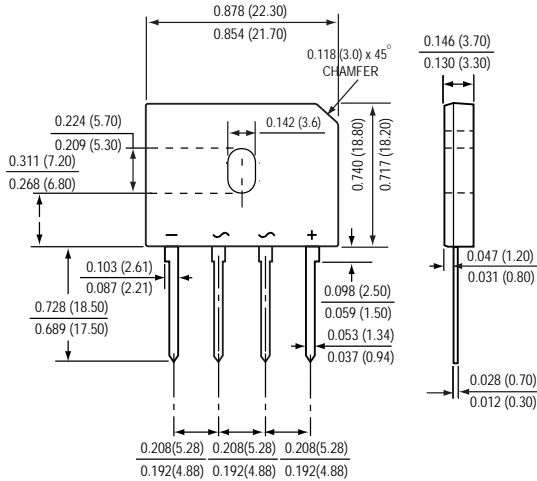


GBU1502H THRU GBU1510H GLASS PASSIVATED BRIDGE RECTIFIER

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

- * Halogen-free type
- * 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

<i>Ratings at 25 °C ambient temperature unless otherwise specified.</i>	SYMBOLS	GBU1502H	GBU1504H	GBU1506H	GBU1508H	GBU1510H	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 (with heatsink Note 2)	I (AV)	15						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250						Amps
Maximum instantaneous forward voltage at 7.5 A	V _F	1.1						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 1)	C _J	70						pF
Typical thermal resistance (Note 2)	R _{JC}	2.2						°C / W
Operating temperature range	T _J	-55 to +150						°C
Storage temperature range	T _{STG}	-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 GBU1502H THRU GBU1510H

FIG.1 - FORWARD CURRENT DERATING CURVE

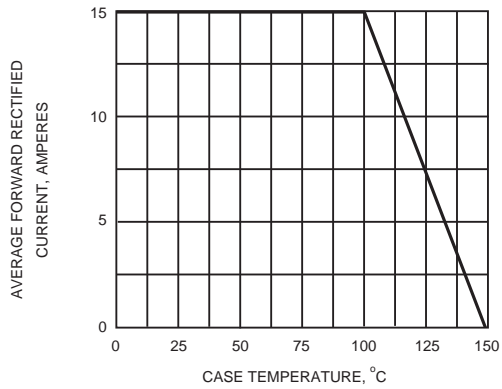


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

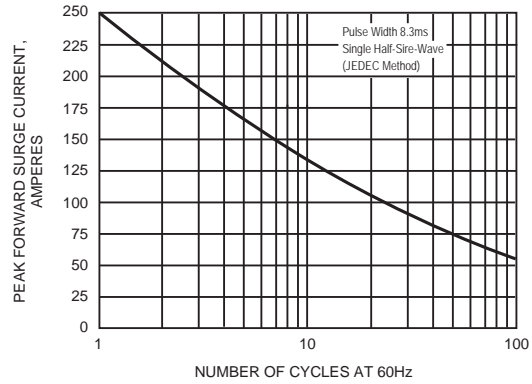


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

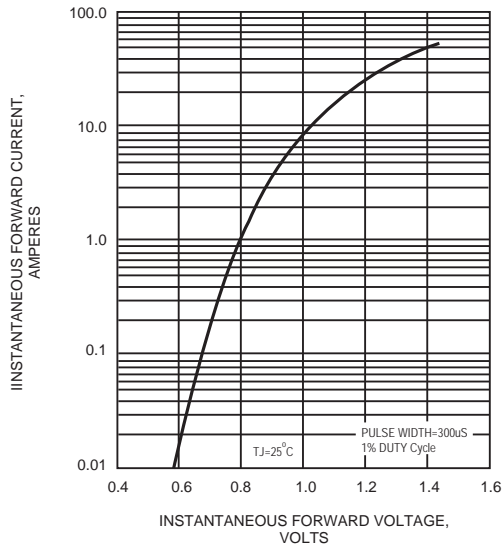


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

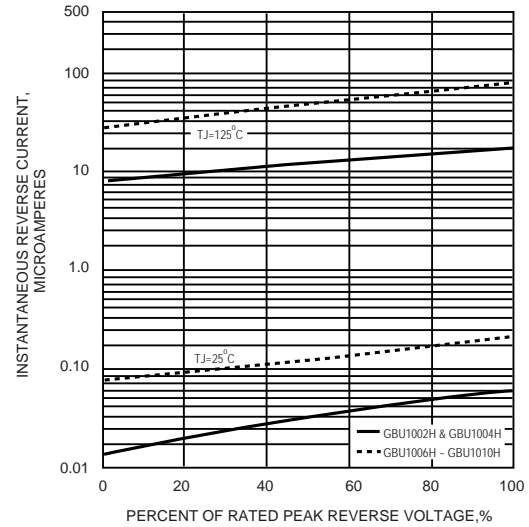


FIG.5 - TYPICAL JUNCTION CAPACITANCE

