



GBL02H THRU GBL10H

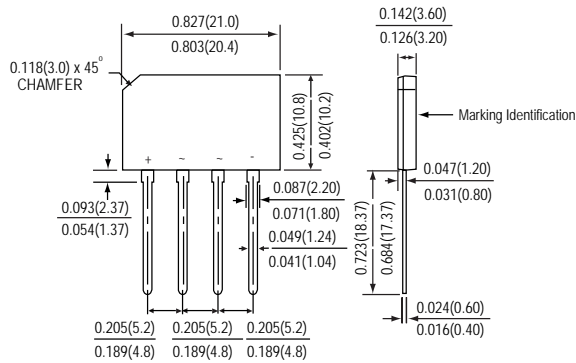
GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 4.0 Amperes



GBL



FEATURES

- * Halogen-free type
- * Plastic Material has Underwriters Laboratory Flammability Classification 94V-0
- * This series is UL listed under the recognized component index, file number E231047
- * Single-in line package
- * High current capability with small package
- * High temperature soldering guaranteed : 260 °C/10 seconds
- * We declare that the material of product compliance with RoHS requirements.

MECHANICAL DATA

Case : Molded Plastic
Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026
Polarity : As marked on Body
Weight : 2.0 grams (approx)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GBL02H	GBL04H	GBL06H	GBL08H	GBL10H	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
Average rectified forward current (see fig.1) TA=50 °C	I (AV)	4.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	150					Amps
Dielectric strength terminals to case, AC 1 minute current 1 mA	Vdia	2.5					KV
Maximum instantaneous forward voltage at 2.0 A	VF	1.0					Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5					uA
		@TA=125 °C					
Rating for fusing (t<8.3ms)	I²t	93					A²sec
Typical thermal resistance	(Note 2) Rth(JA)	22					°C/W
	(Note 1) Rth(JC)	4.2					°C/W
Power dissipation	PD	5.6					W
Operating junction temperature	TJ	150					°C
Storage temperature range	TJ,TSTG	-55 to +150					°C

NOTES : (1) Unit mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3 cm) aluminum plate
 (2) Unit mounted on P.C.B. at 0.375" (9.5 mm) lead length and 0.5 x 0.5" (12 x 12 mm) copper pads

RATINGS AND CHARACTERISTIC CURVES GBL02H THRU GBL10H

FIG.1 - FORWARD CURRENT DERATING CURVE

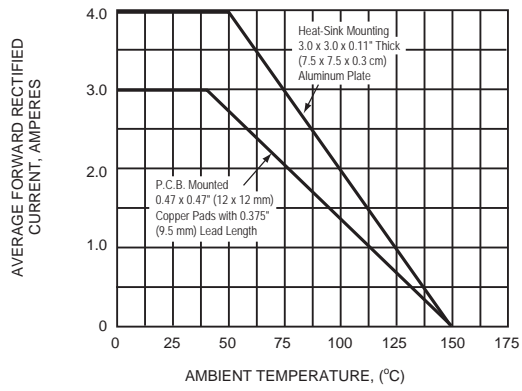


FIG.2 - FORWARD CURRENT DERATING CURVE

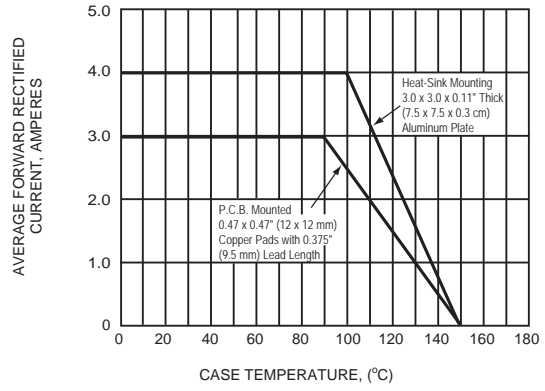


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

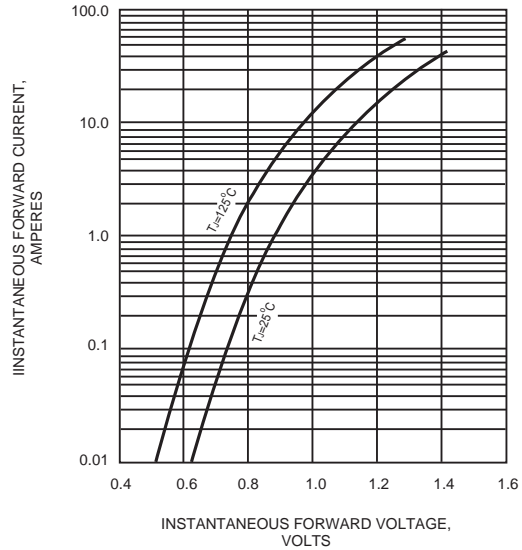


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

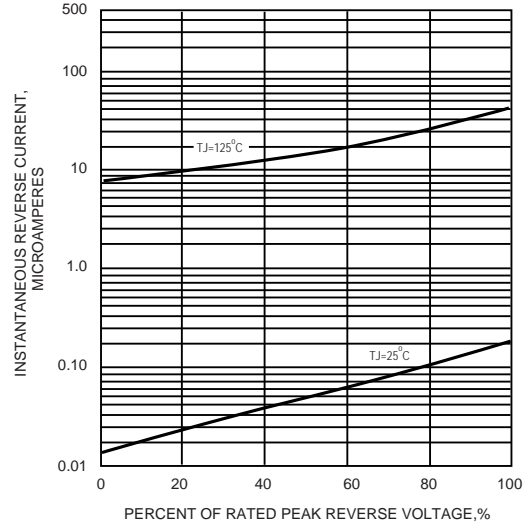


FIG.5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

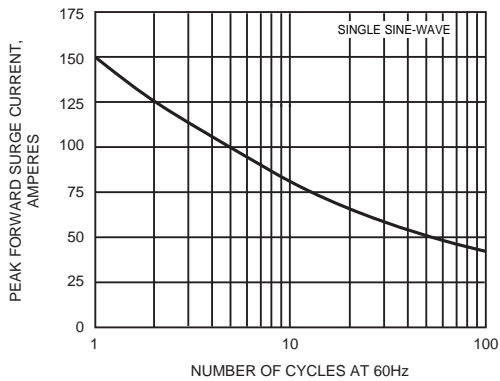


FIG.6 - TYPICAL JUNCTION CAPACITANCE

