



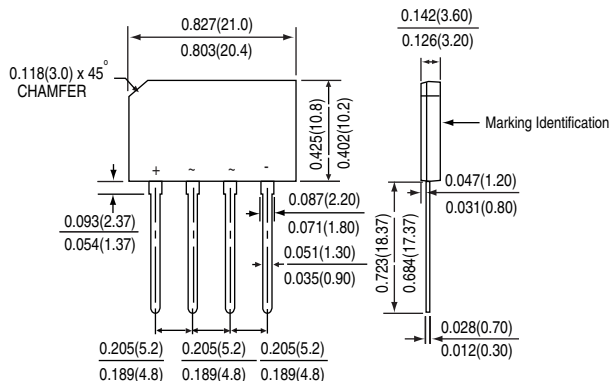
GBL02 THRU GBL10

GLASS PASSIVATED BRIDGE RECTIFIER

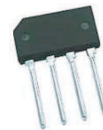
Reverse Voltage - 200 to 1000 Volts

Forward Current - 4.0 Amperes

GBL



*Dimensions in inches and (millimeters)



FEATURES

- * 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
- * Superior thermal conductivity
- * 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	GBL02	GBL04	GBL06	GBL08	GBL10	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
Average rectified forward current (see fig.1) T _A =50°C	I (AV)	4.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150					Amps
Dielectric strength terminals to case, AC 1 minute current 1 mA	V _{dia}	2.5					KV
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
Rating for fusing (t<8.3ms)	I ² t	93					A ² sec
Typical thermal resistance (Note 2)	R _{th} (JA)	22					°C/W
	R _{th} (JC)	4.2					°C/W
Power dissipation	P _D	5.6					W
Operating junction temperature	T _J	150					°C
Storage temperature range	T _J ,T _{STG}	-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 GBL02 THRU GBL10

FIG.1 - FORWARD CURRENT DERATING CURVE

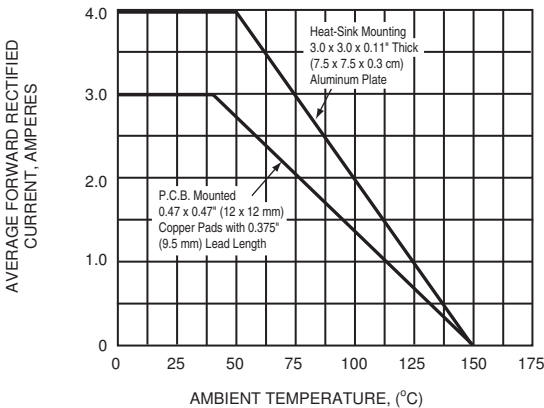


FIG.2 - FORWARD CURRENT DERATING CURVE

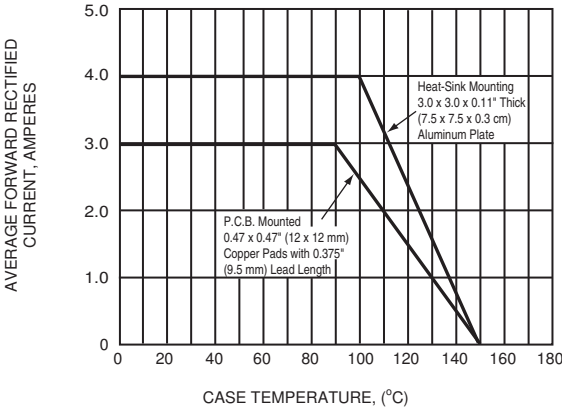


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

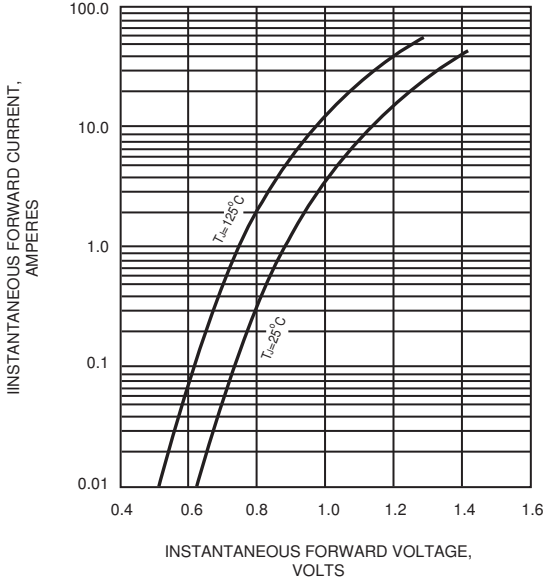


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

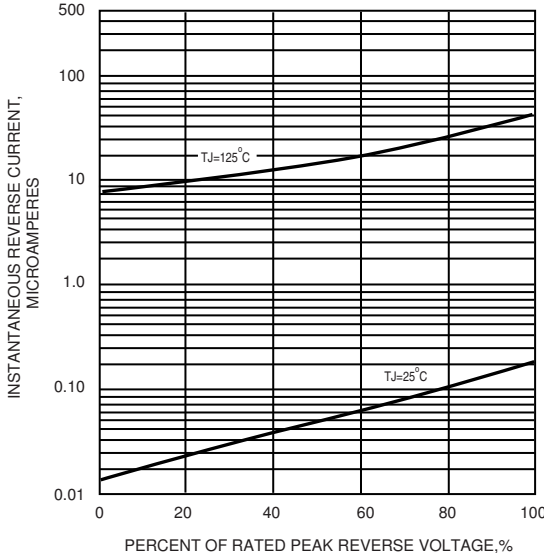


FIG.5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

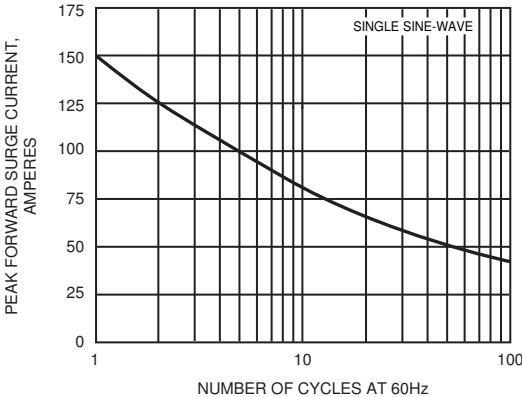


FIG.6 - TYPICAL JUNCTION CAPACITANCE

