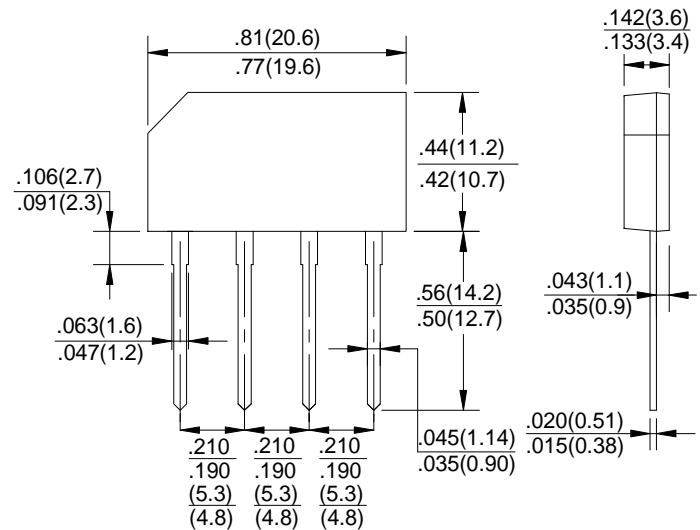




GBL

Features

- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique
- ◇ Plastic material has U/L flammability classification 94V-O
- ◇ Mounting position: Any
- ◇ Glass passivated chip junctions



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		GBL 6005	GBL 601	GBL 602	GBL 604	GBL 606	GBL 608	GBL 610	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward $T_c=50^\circ\text{C}$	$I_{F(AV)}$	6.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	175.0							A
I ² t Rating for fusing @ $T_j=25^\circ\text{C}$	I^2t	127							A ² S
Maximum instantaneous forward voltage at 2.0A at 4.0A	V_F	1.0 1.1							V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_C=100^\circ\text{C}$	I_R	5.0 500.0							μA
Typical junction capacitance per leg (note 1)	C_J	55							pF
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JC}$	47 4.2							$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	- 55 ---- + 150							$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^\circ\text{C}$

NOTE: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

Ratings AND Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

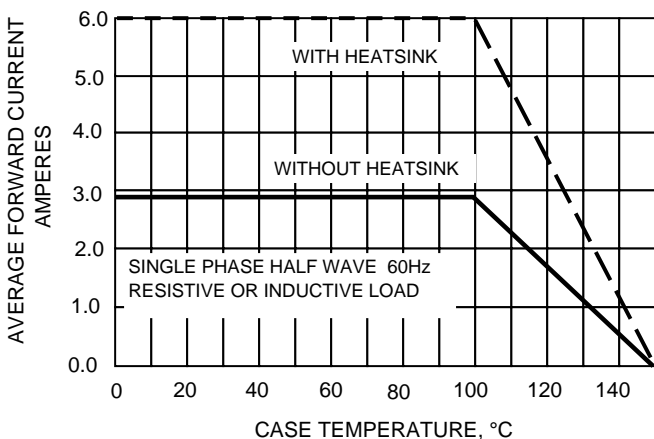


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

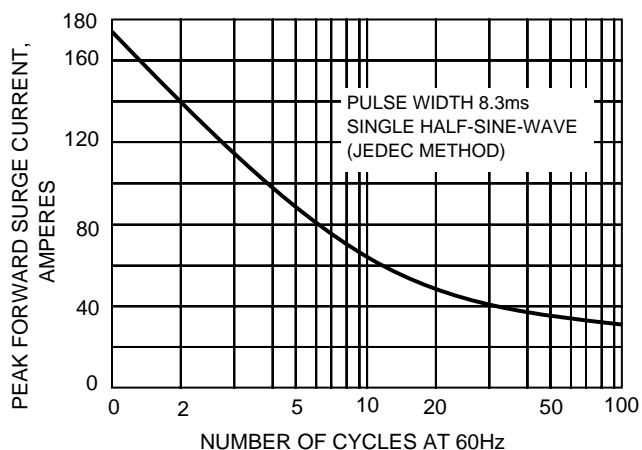


FIG.3-TYPICAL REVERSE CHARACTERISTICS

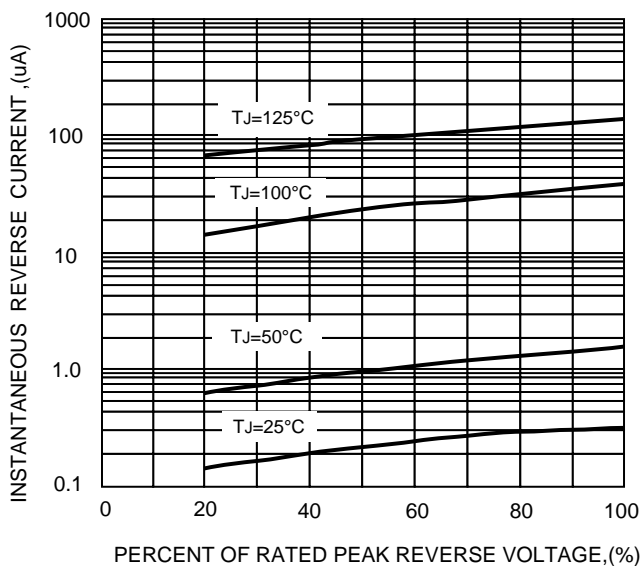


FIG.4-TYPICAL FORWARD CHARACTERISTICS

