

# GBL6005-GBL610

Silicon Bridge Rectifiers



**VOLTAGE RANGE: 50 --- 1000 V**

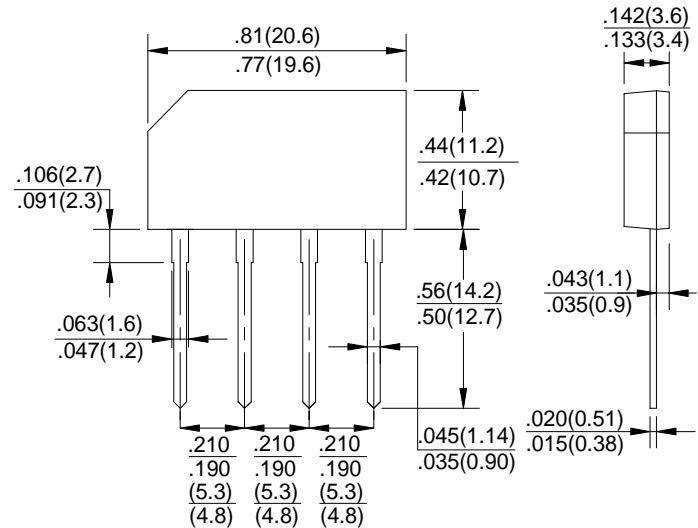
**CURRENT: 6.0 A**

**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 <sup>2</sup> t Rating for fusing @ $T_j=25^\circ\text{C}$	$I^2t$	127							A <sup>2</sup> 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							$\mu\text{A}$
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.

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## Ratings AND Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

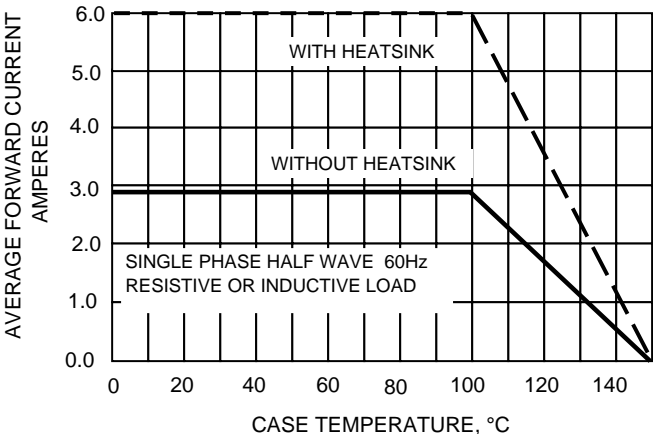


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

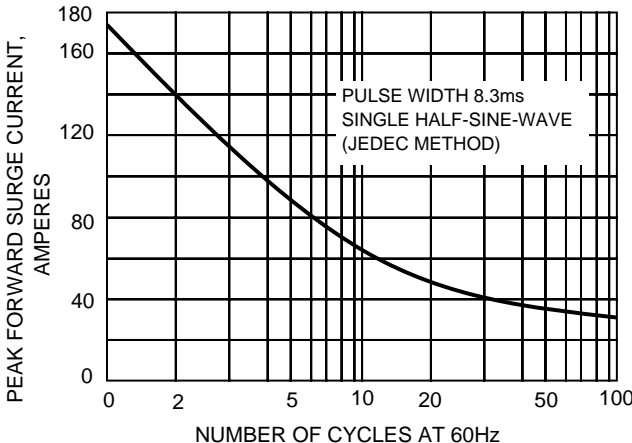


FIG.3-TYPICAL REVERSE CHARACTERISTICS

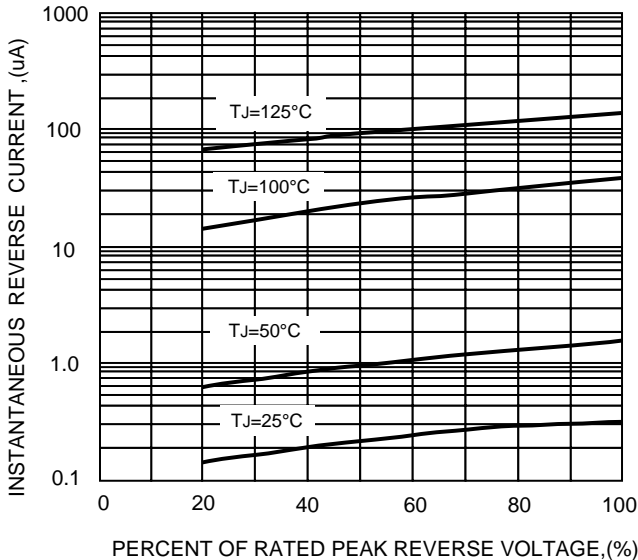
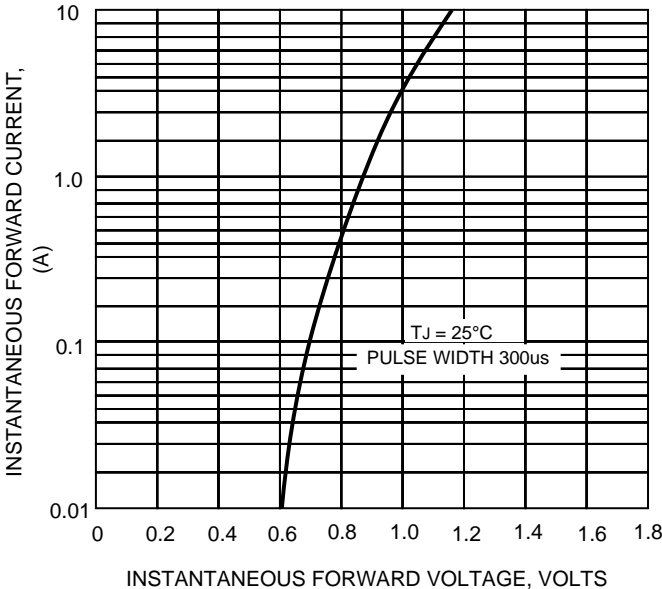


FIG.4-TYPICAL FORWARD CHARACTERISTICS



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