

GLASS PASSIVATED BRIDGE RECTIFIERS

Features

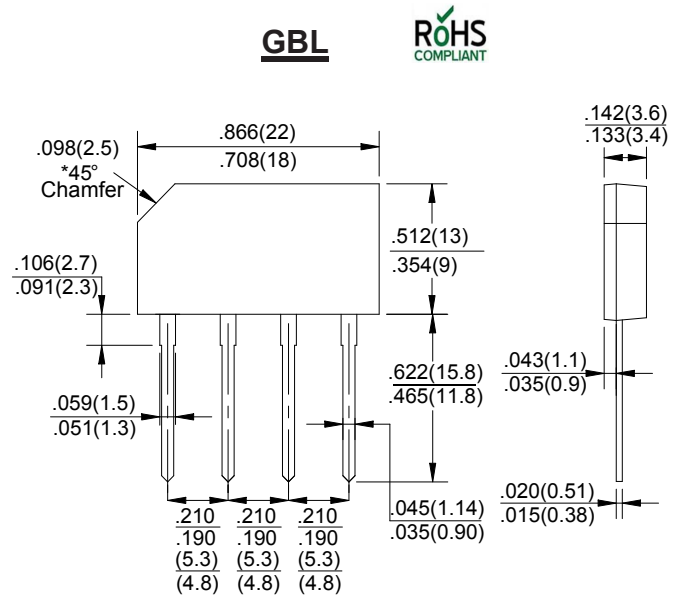
- ◆ Ideal for printed circuit board mounting
- ◆ The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- ◆ Built-in printed circuit board stand-offs
- ◆ High case dielectric strength
- ◆ High temperature soldering guaranteed 260 /5 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case : Reliable low cost construction utilizing molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202, Method 208

Mounting Position : Any



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	SYMBOLS	MDD GBL6005	MDD GBL601	MDD GBL602	MDD GBL604	MDD GBL606	MDD GBL608	MDD GBL610	UNITS
Maximum repetitive 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 output rectified current at $T_c=100^\circ\text{C}$ (with heatsink)	I_{AV}	6.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A
Maximum instantaneous forward voltage drop per bridge element at 3.0A	V_F	1.1							V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	I_R	10							μA
		0.5							mA
Operating junction temperature range	T_J	-55 to +150							$^\circ\text{C}$
storage temperature range	T_{STG}	-55 to +150							$^\circ\text{C}$

Note:(1)Thermal resistance from Junction to Ambient on P.C.board mounting.

Ratings And Characteristic Curves

Fig. 1 Derating Curve for Output Rectified Current

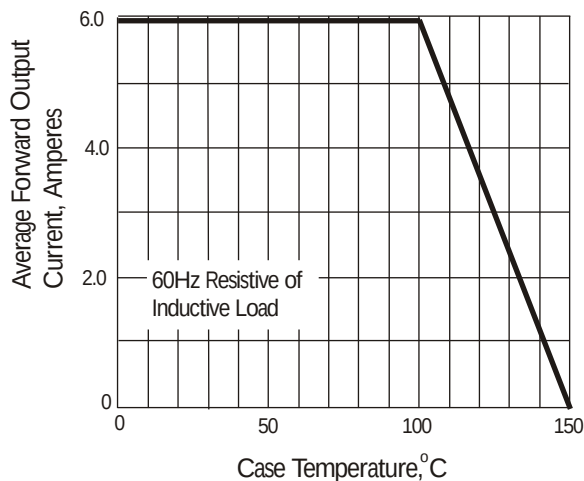


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

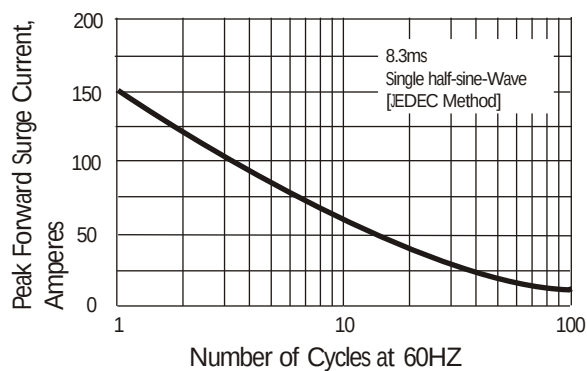


Fig. 3 Typical Instantaneous Forward Characteristics

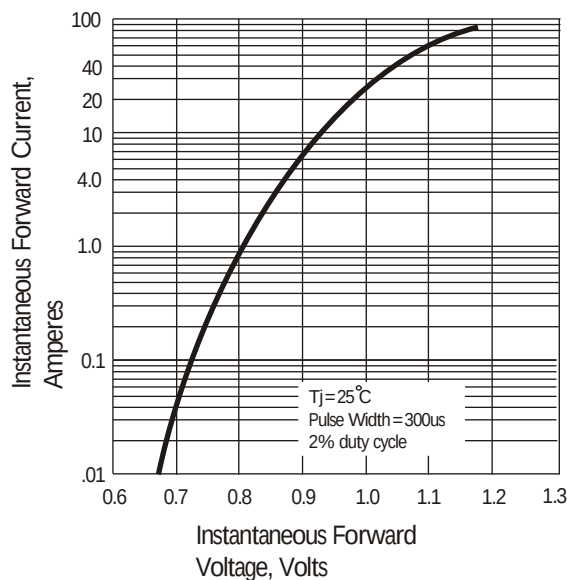


Fig. 4 Typical Reverse Characteristics

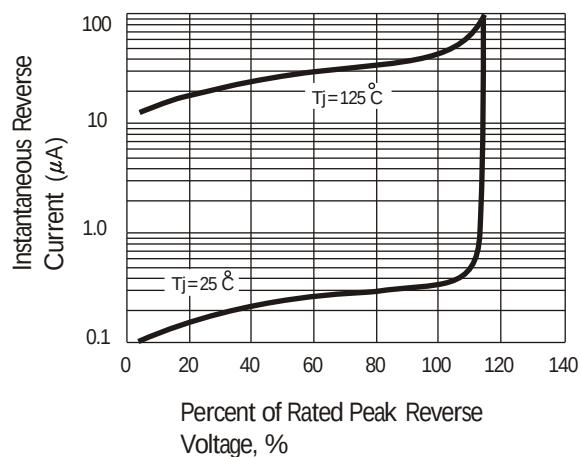
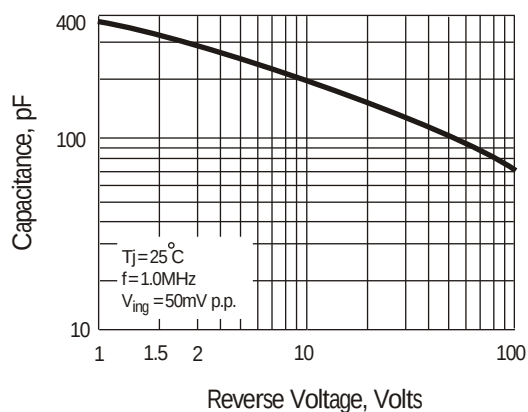


Fig. 5 Typical Junction Capacitance



The curve above is for reference only.