



GBL2005G THUR GBL210G

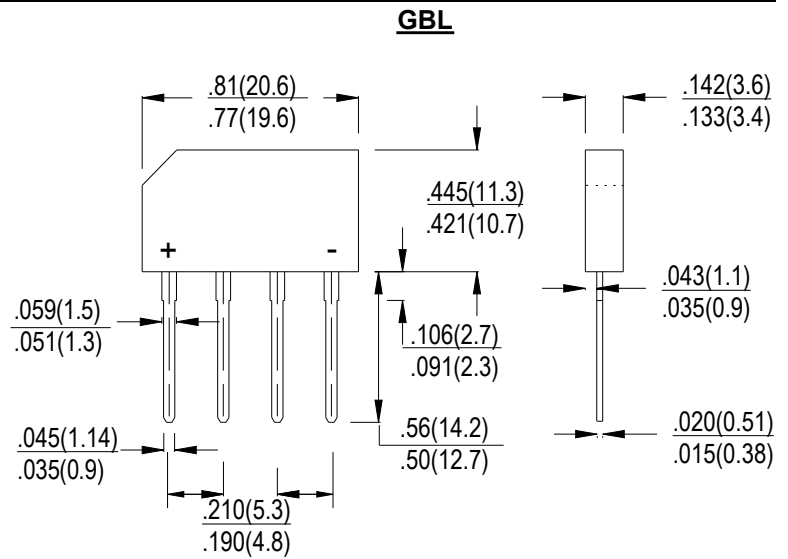
Single Phase 2.0 AMP Glass Passivated Bridge Rectifier

Features

- Glass passivated die construction.
- Low forward voltage drop.
- High surge current capability
- Ideal for printed circuit board.

Mechanical Data

- Case:GBL Molded Plastic .
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-202, Method208.
- Polarity:marked on body
- Marking Information: Type Number
- Mounting Position : Any.



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load derate current by 20%.

Type Number	SYMBOL	GBL 2005G	GBL 201G	GBL 202G	GBL 204G	GBL 206G	GBL 208G	GBL 210G	UNIT
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
Average Rectified Output Current@60Hz sine wave, R-load, $T_a = 25^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							A
Rating for fusing ($t < 8.3\text{ms}$)	$I^2 t$	14.94							A^2s
Forward Voltage @ $I_F = 2\text{A}$	V_{FM}	1.1							V
Peak Reverse Current@ $T_A = 25^\circ\text{C}$	I_R	5							μA
At Rated DC Blocking Voltage@ $T_J = 125^\circ\text{C}$		500							
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	47							$^\circ\text{C}/\text{W}$
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	10							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$



Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

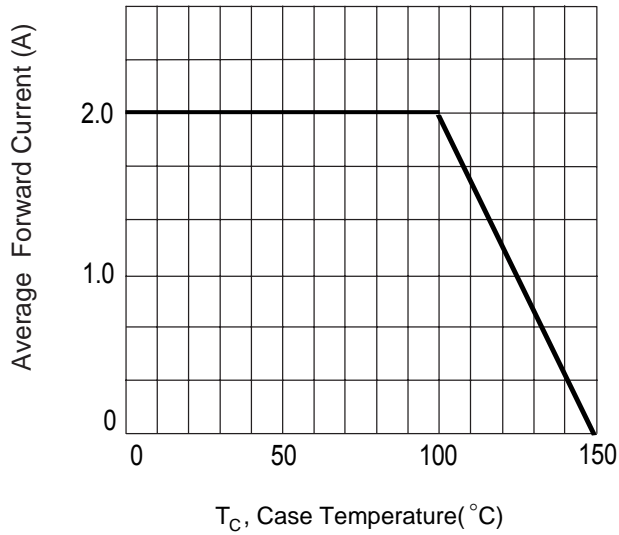


Fig. 2 Typ. Forward Characteristics

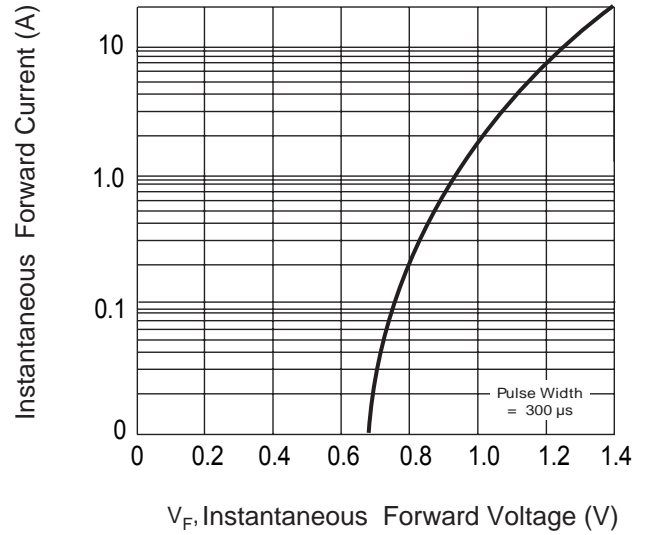


Fig.3 Maximum Peak Forward Surge Current

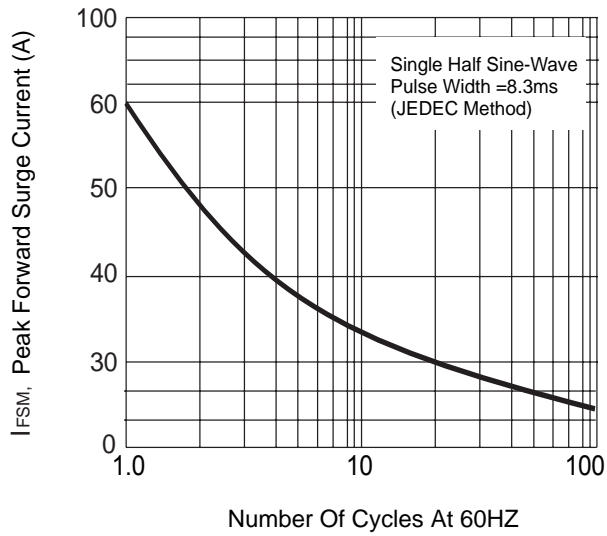
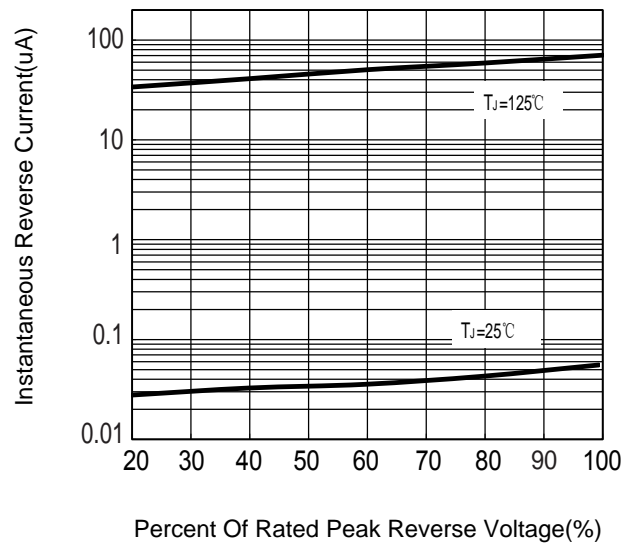


Fig.4 Typical Reverse Characteristics





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