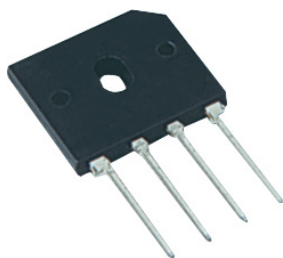


Glass Passivated Bridge Rectifier

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Features

- Surge overload rating - 175 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Mounting position: Any

Maximum Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

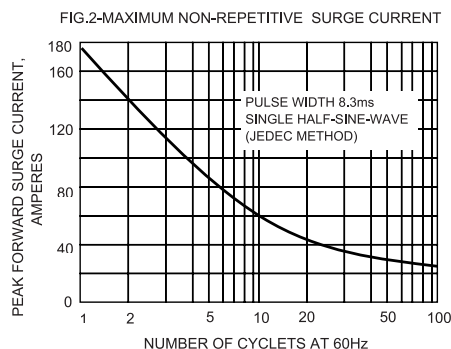
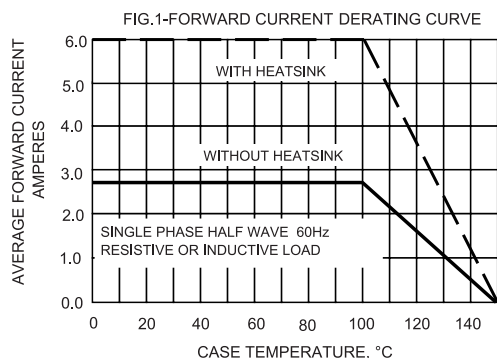
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Characteristic	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	
Maximum DC Blocking Voltage	V_{DC}	600	
Maximum Average Forward (with heatsink Note 2) Rectified Current @ $T_c = 100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	6 2.8	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	175	
Maximum Forward Voltage at 3A DC	V_F	0.92	V
Maximum DC Reverse Current @ $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$	I_R	10 500	μA
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	127	A^2s
Typical Junction Capacitance Per Element (Note 1)	C_J	50	pF
Typical Thermal Resistance	$R_{\theta JC}$	2.2	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}		

- Notes:** 1. Measured at 1MHz and applied reverse voltage of 4V DC
2. Device mounted on 75mm × 75mm × 1.6mm Cu plate heatsink.
3. The typical data above is for reference only

Rating and Characteristic Curves



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Element14.com/multicomp-pro

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FIG.3-TYPICAL JUNCTION CAPACITANCE

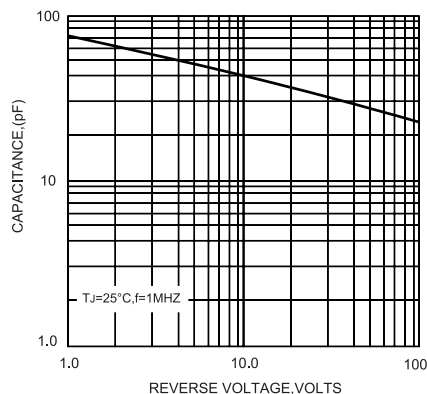


FIG.4-TYPICAL FORWARD CHARACTERISTICS

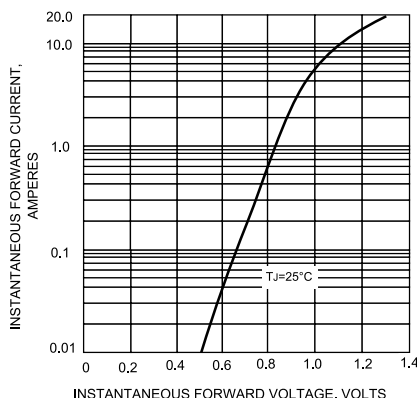
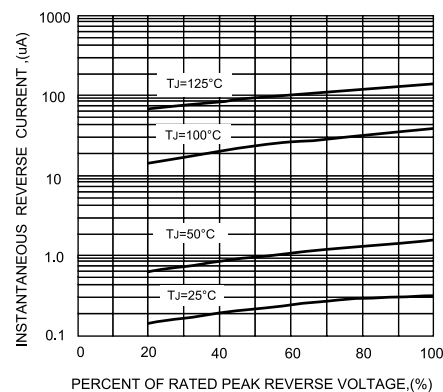
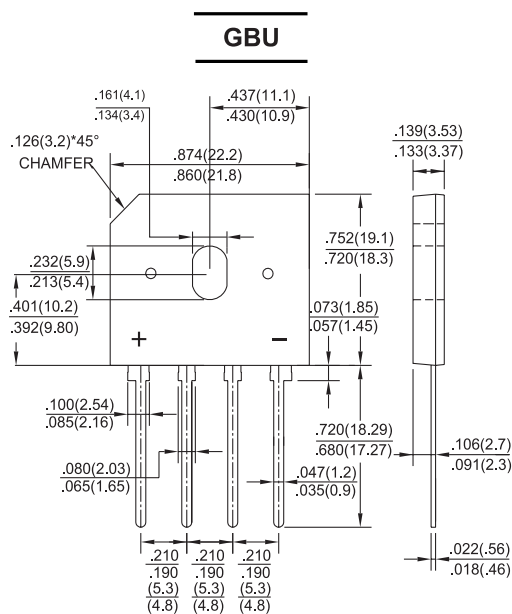


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Dimension:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	GBU606L

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