Glass Passivated Bridge Rectifier

Features

- Rating 600V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has U/L flammability classification 94V-0

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%

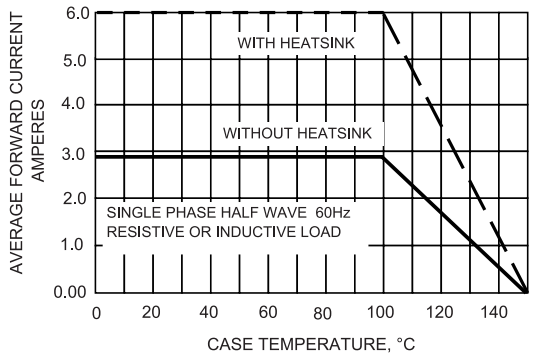
Characteristic	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	
Maximum DC Blocking Voltage	V_{DC}	600	
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T_C = 100°C (without heatsink)	$I_{(AV)}$	6 2.8	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	170	
Maximum Forward Voltage at 3A DC	V_F	0.92	V
Maximum DC Reverse Current @ T_J = 25°C at Rated DC Blocking Voltage @ T_J = 125°C	I_R	10 127	µA
I^2t Rating for Fusing (t<8.3ms)	I^2t	120	A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	55	pF
Typical Thermal Resistance	$R_{\theta JC}$	1.8	°C/W
Operating Temperature Range	T_J	-55 to +150	°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

FIG.1-FORWARD CURRENT DERATING CURVE



FLG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

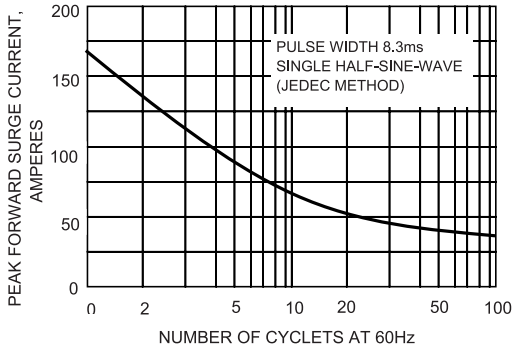


FIG.3-TYPICAL JUNCTION CAPACITANCE

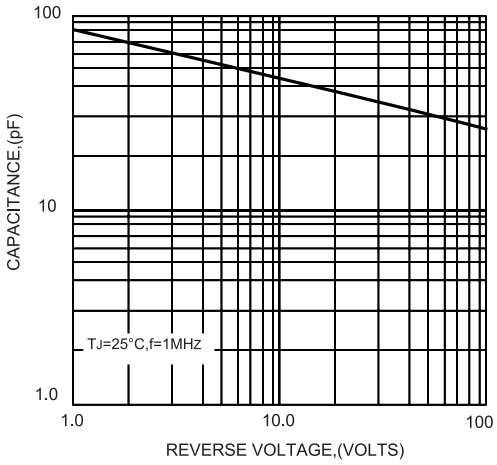


FIG.4-TYPICAL FORWARD CHARACTERISTICS

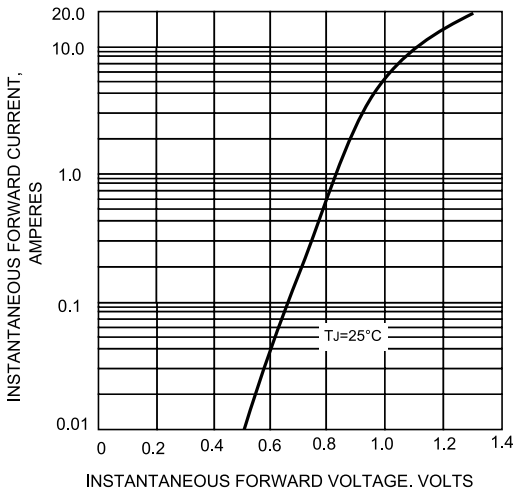
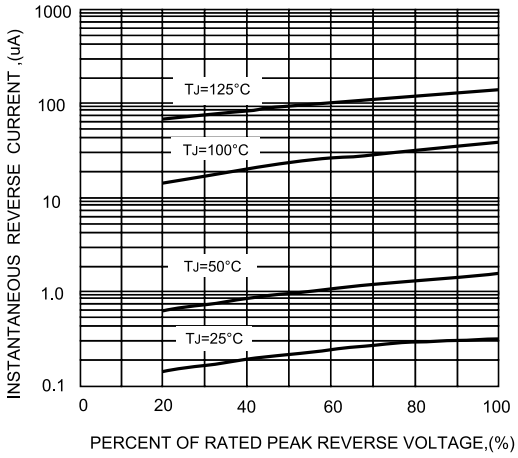


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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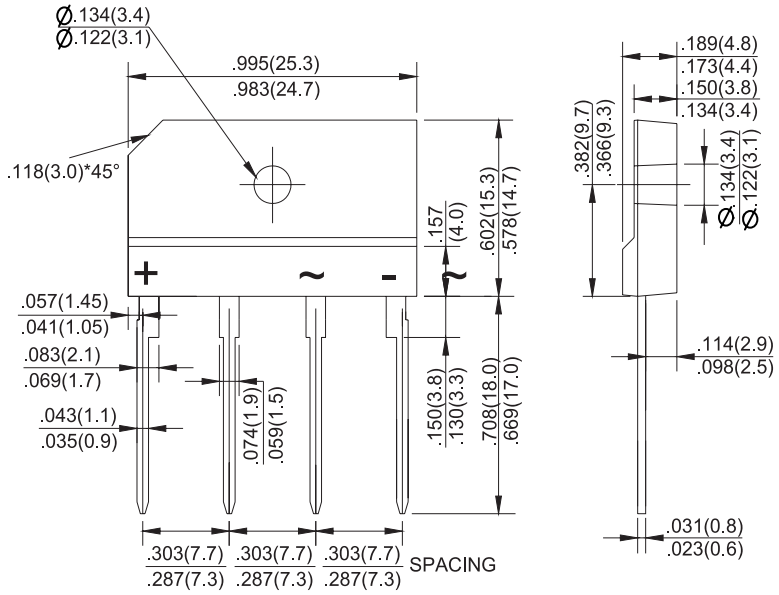
Dimension:

4GBJ



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	4GBJ606L