

Low VF Glass Passivated Bridge Rectifier

multicompPRO



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 UL 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 Rectified Current @ $T_C = 100^{\circ}\text{C}$ (without heatsink)	$I_{(AV)}$	15 3.2	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	240	
Maximum Forward Voltage at 7.5A DC	V_F	0.95	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
Operating Temperature Range	T_J	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}		

Note:

1. Device mounted on 150mm×150mm×1.6mm Cu plate heatsink.

Rating and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

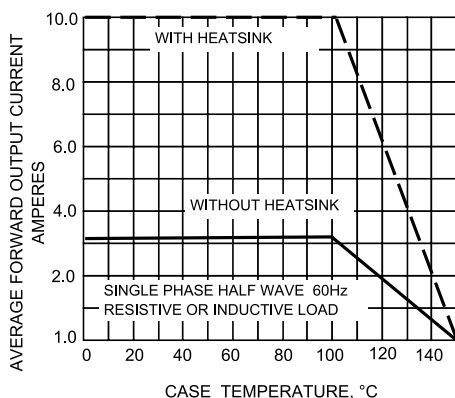
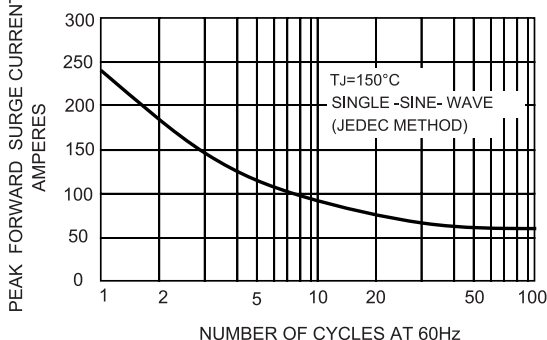


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT



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FIG.3-TYPICAL REVERSE CHARACTERISTICS

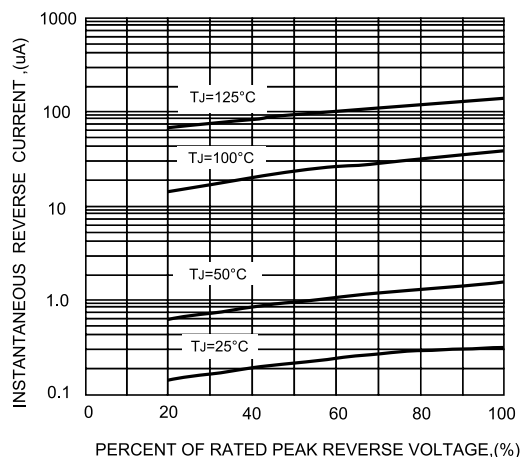
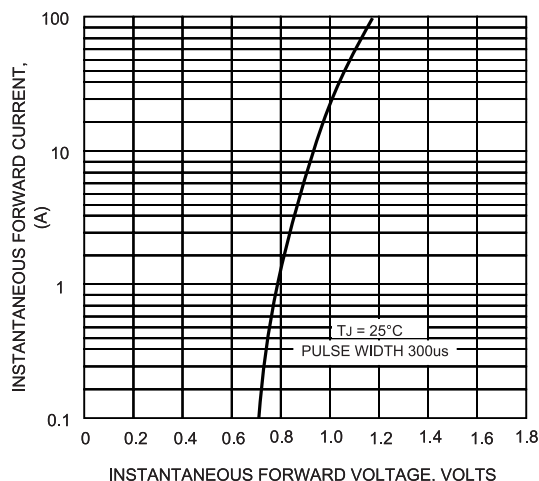
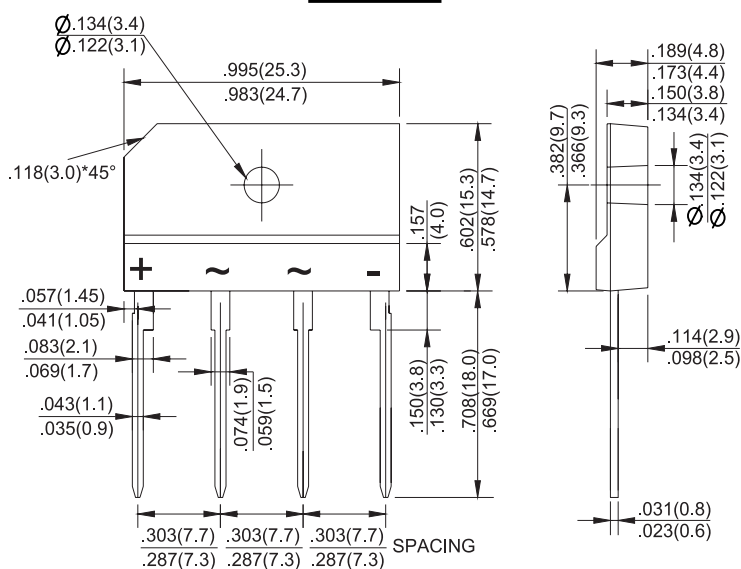


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Dimension:

4GBJ



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Low VF Glass Passivated Bridge Rectifier	4GBJ1506F

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