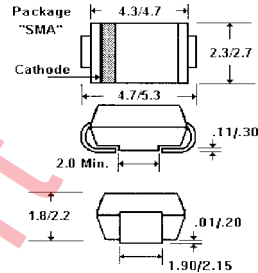


Description



Mechanical Dimensions

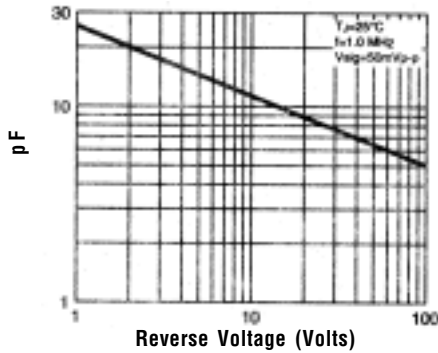


Features

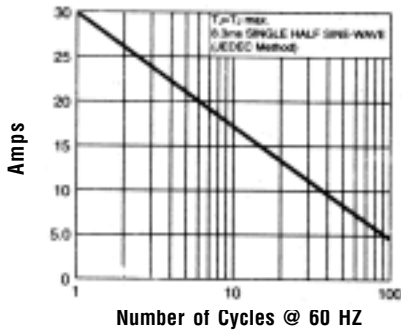
- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- CAPABILITY OF MEETING ENVIRONMENTAL STANDARDS OF MIL-S-19500
- SINTERED GLASS CAVITY-FREE JUNCTION

Electrical Characteristics @ 25°C.	<i>GF1A ... GF1M Series</i>							Units
Maximum Ratings	GF1A	GF1B	GF1D	GF1G	GF1J	GF1K	GF1M	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$				1.0				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3 mS, 1/2 Sine Wave Superimposed on Rated Load				30				Amps
Forward Voltage @ 1.0A... V_F @ Rated Forward Current $T_A = 25^\circ C$	< 1.1 >			< 1.2 >			Volts	
Full Load Reverse Current... $I_{R(av)}$ Full Cycle Average @ $T_A = 75^\circ C$				30				μAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage $T_A = 25^\circ C$				5				μAmps
				50				μAmps
Typical Junction Capacitance... C_j (Note 1)				15				pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)				80				°C/W
Operating & Storage Temperature Range... T_J, T_{STRG}				-65 to 175			°C	

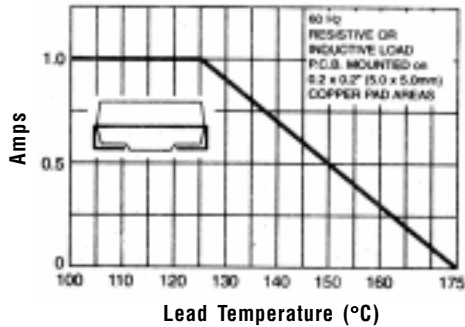
Typical Junction Capacitance



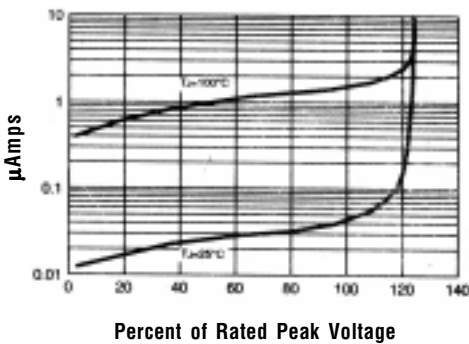
Non-Repetitive Peak Forward Surge Current



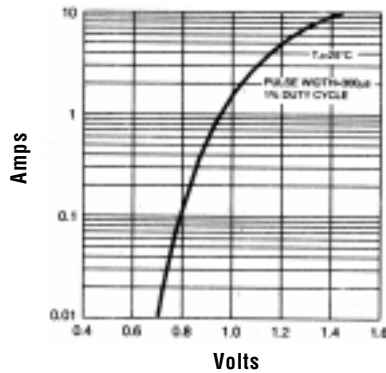
Forward Current Derating Curve



Typical Reverse Characteristics



Typical Instantaneous Forward Characteristics



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance from Junction to Ambient, 6.0mm' copper pad to each terminal.