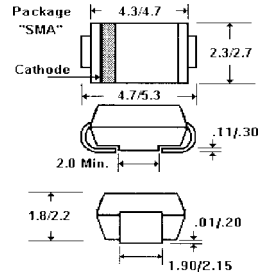


## Description



## Mechanical Dimensions

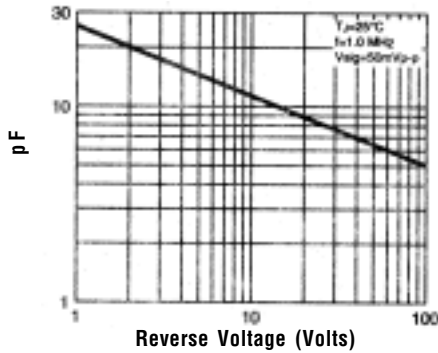


## Features

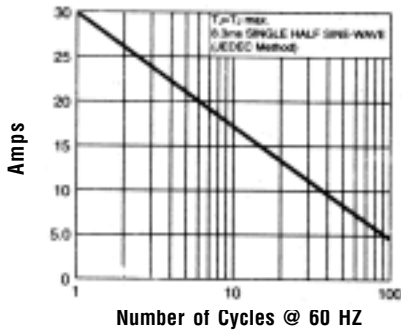
- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- CAPABILITY OF MEETING ENVIRONMENTAL STANDARDS OF MIL-S-19500
- SINTERED GLASS CAVITY-FREE JUNCTION

Electrical Characteristics @ 25°C.	GF1A . . . GF1M Series							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	> < .....			Volts
Full Load Reverse Current... $I_{R(av)}$ Full Cycle Average @ $T_A = 75^\circ C$				30				$\mu$ Amps
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage $T_A = 25^\circ C$				5				$\mu$ Amps
				50				$\mu$ Amps
Typical Junction Capacitance... $C_j$ (Note 1)				15				pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)				80				$^\circ C/W$
Operating & Storage Temperature Range... $T_J, T_{STRG}$				-65 to 175				$^\circ C$

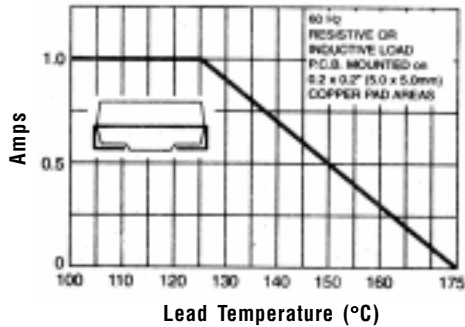
**Typical Junction Capacitance**



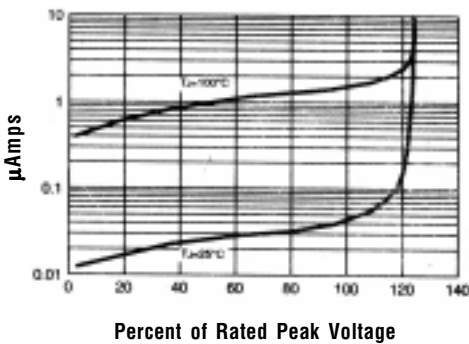
**Non-Repetitive Peak Forward Surge Current**



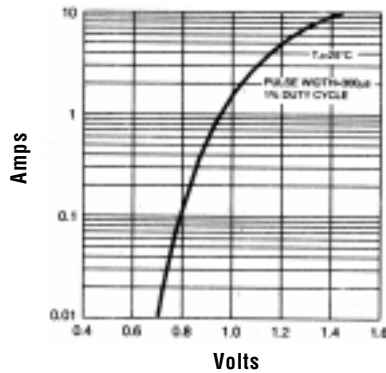
**Forward Current Derating Curve**



**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<sup>2</sup> copper pad to each terminal.