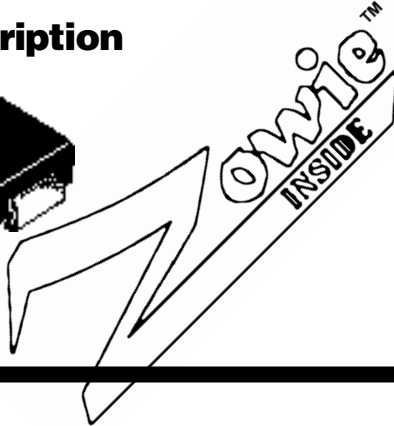


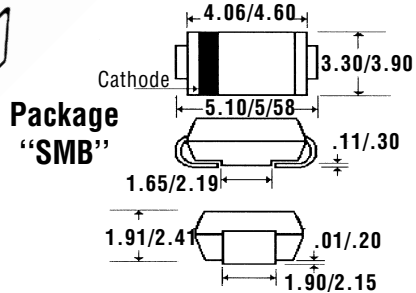


GFZ20A . . . 20M Series

Description



Mechanical Dimensions

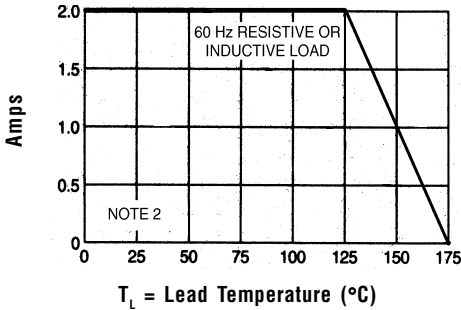


Features

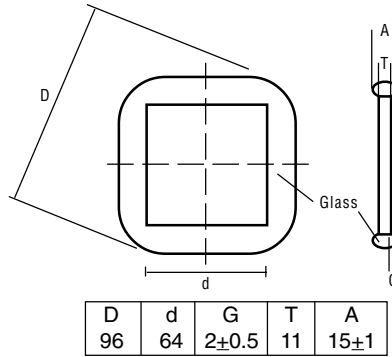
- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **2.0 AMP OPERATION @ $T_A = 125^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.	GFZ20A . . . 20M Series								Units
Maximum Ratings	20A	20B	20D	20G	20J	20K	20M		
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... $I_{F(av)}$ @ $T_L = 125^\circ\text{C}$ (Note 2)	2.0							Amps	
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load	65							Amps	
Forward Voltage @ 2.0A... V_F	< 1.1 > < 1.2 >							Volts	
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$	100							μAmps	
DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$			$T_A = 150^\circ\text{C}$				μAmps	
Typical Junction Capacitance... C_j (Note 1)	20							pF	
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	16							$^\circ\text{C/W}$	
Typical Reverse Recovery Time... t_{RR} (Note 3)	2.5							μs	
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 175							$^\circ\text{C}$	

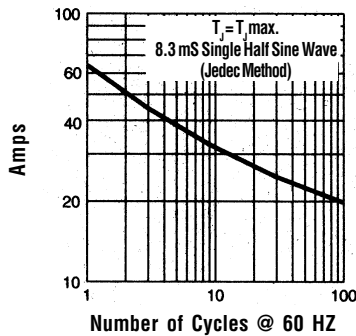
Forward Current Derating Curve



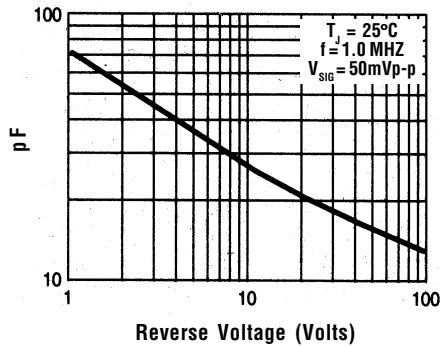
Die Dimension (mils)



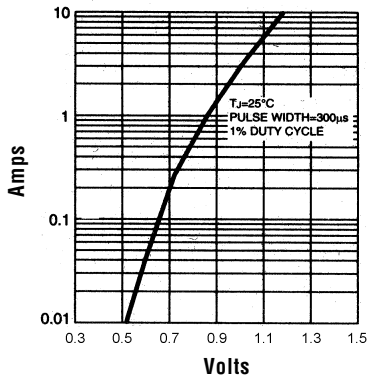
Non-Repetitive Peak Forward Surge Current



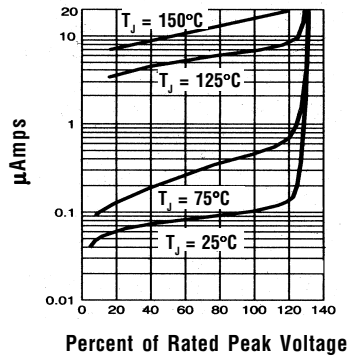
Typical Junction Capacitance



Typical Instantaneous Forward Characteristics



Typical Reverse 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. 5.0mm² (.013mm thick) land areas.
 3. Reverse Recovery Condition $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.