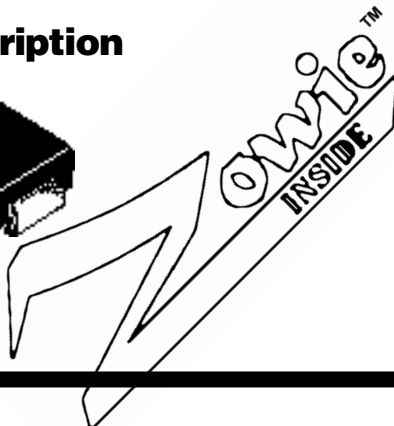
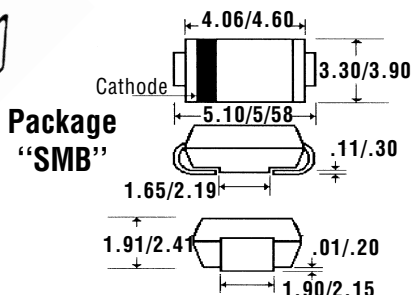


Description



Mechanical Dimensions



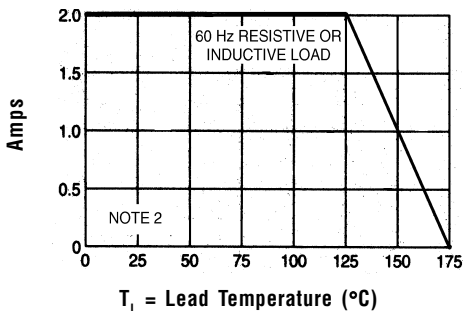
Features

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

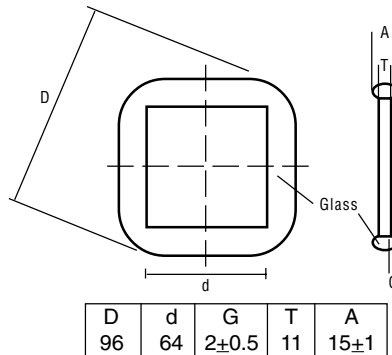
Electrical Characteristics @ 25°C.	GFZ20A . . . 20M Series							Units
Maximum Ratings	20A	20B	20D	20G	20J	20K	20M	
Peak Repetitive Reverse Voltage...V _{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...V _{R(rms)}	35	70	140	280	420	560	700	Volts
DC Blocking Voltage...V _{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...I _{F(av)} @ T _L = 125°C (Note 2)	2.0							Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3mS, ½ 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°C	100							µAmps
DC Reverse Current...I _{R(max)} @ Rated DC Blocking Voltage	T _A = 25°C T _A = 150°C 5.0 100							µAmps
Typical Junction Capacitance...C _J (Note 1)	20							pF
Typical Thermal Resistance...R _{θJA} (Note 2)	16							°C/W
Typical Reverse Recovery Time...t _{RR} (Note 3)	2.5							µS
Operating & Storage Temperature Range...T _J , T _{STRG}	-65 to 175							°C



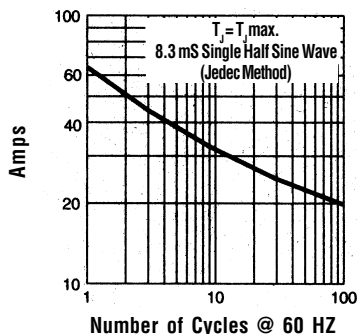
Forward Current Derating Curve



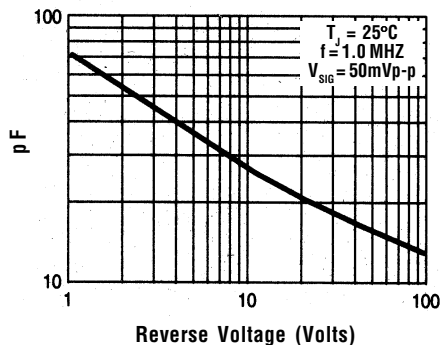
Die Dimension (mils)



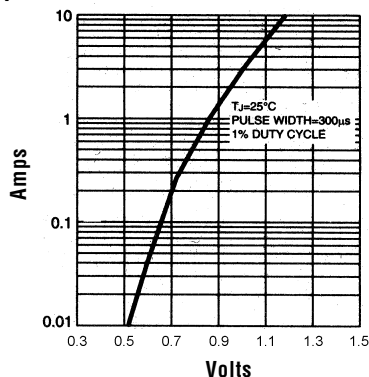
Non-Repetitive Peak Forward Surge Current



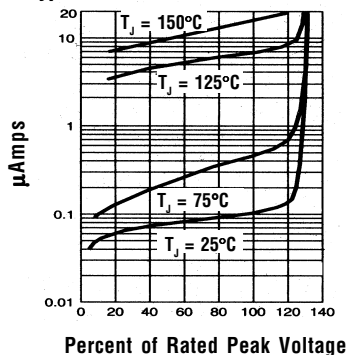
Typical Junction Capacitance



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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.