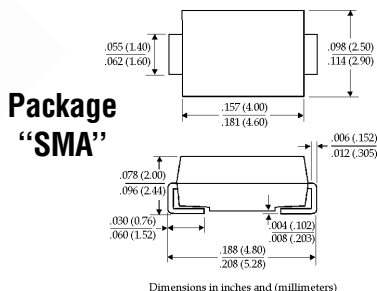
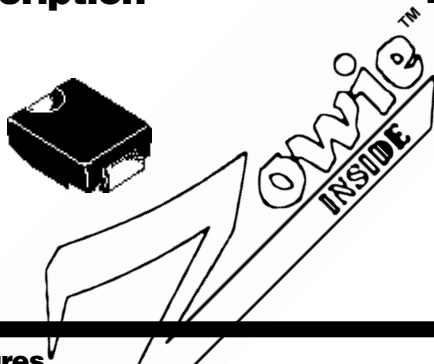


1.0 Amp Glass Passivated Sintered Rectifiers

Description

Mechanical Dimensions



Features

- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST V_f FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL $I_p < 100$ nAmps**

- **1.0 AMP OPERATION @ $T_A = 135^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

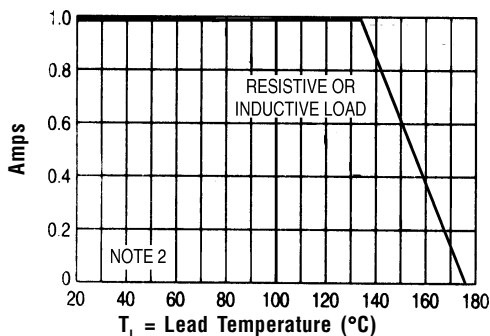
Electrical Characteristics @ 25°C.				GFZ10A . . . 10Q Series									Units	
Maximum Ratings				10A	10B	10D	10G	10J	10K	10M	10N	10Q		
Peak Repetitive Reverse Voltage...V _{RRM}				50	100	200	400	600	800	1000	1100	1200	Volts	
RMS Reverse Voltage...V _{R(rms)}				35	70	140	280	420	560	700	770	840	Volts	
DC Blocking Voltage...V _{DC}				50	100	200	400	600	800	1000	1100	1200	Volts	
Average Forward Rectified Current...I _{F(av)} @ T _A = 135°C (Note 2)				1.0									Amps	
Non-Repetitive Peak Forward Surge Current...I _{FSM} ½ Sine Wave Superimposed on Rated Load				30									Amps	
Forward Voltage @ 1.0A...V _F				< 1.1 >		< 1.2 >								Volts
Full Load Reverse Current...I _R (av) Full Cycle Average @ T _A = 75°C				30									µAmps	
DC Reverse Current...I _{R(max)} @ Rated DC Blocking Voltage				T_A = 25°C 5.0 T_A = 150°C 100									µAmps	
													µAmps	
Typical Junction Capacitance...C _J (Note 1)				< 8.0 >		< 7.0 >								pF
Typical Thermal Resistance...R _{θJA} (Note 2)				45									°C/W	
Typical Reverse Recovery Time...t _{RR} (Note 3)				2.0									µS	
Operating & Storage Temperature Range...T _J , T _{STRG}				-65 to 175									°C	



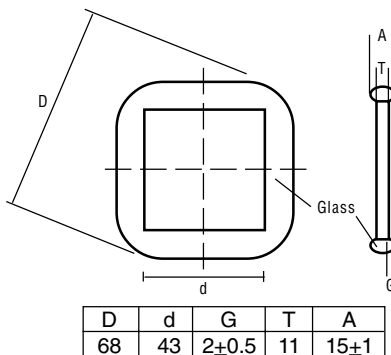
1.0 Amp Glass Passivated Sintered Rectifiers

GFZ10A ... 10Q Series

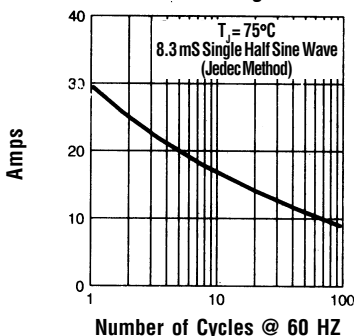
Forward Current Derating Curve



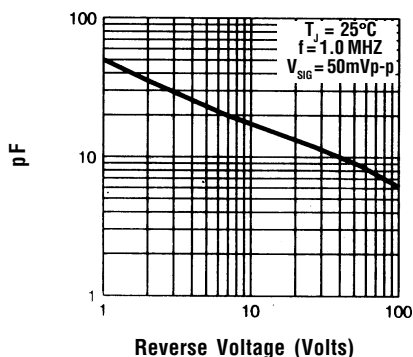
Die Dimension (mils)



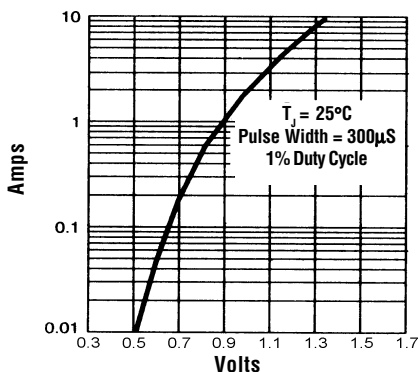
Non-Repetitive Peak Forward Surge Current



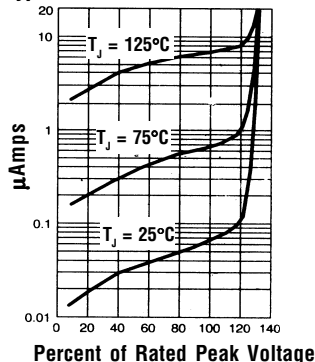
Typical Junction Capacitance



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