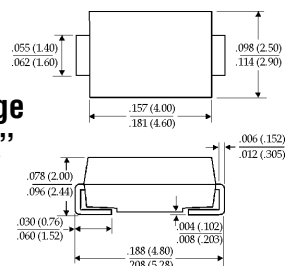


1.0 Amp Glass Passivated Sintered Fast Switching Rectifiers

Description



Mechanical Dimensions



Dimensions in inches and (millimeters)

Package “SMA”

Features

- **LOWEST COST/FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **LOWEST V_f FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **TYPICAL $I_D < 100$ nAmps**

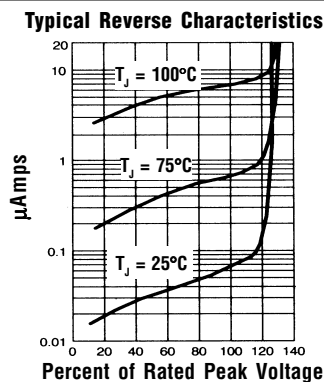
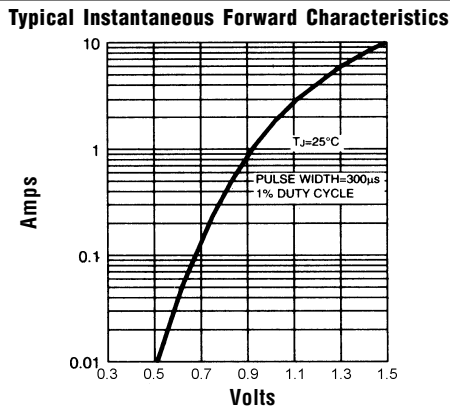
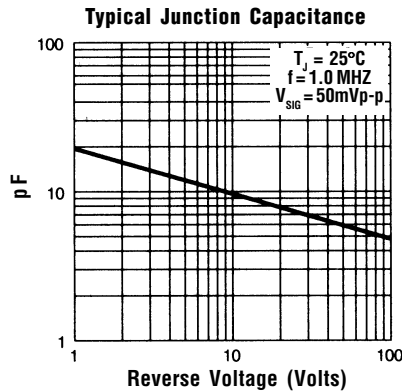
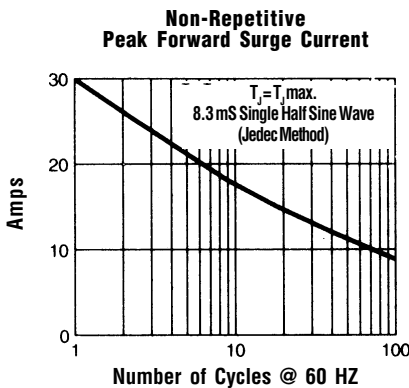
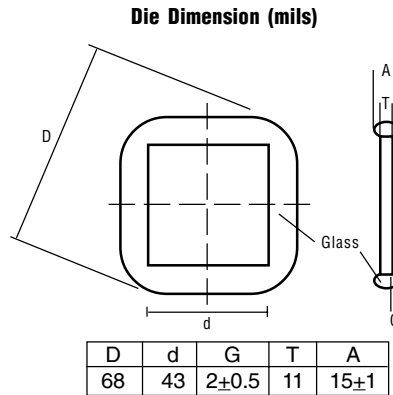
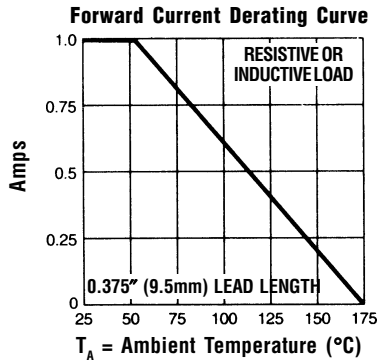
- **1.0 AMP OPERATION @ $T_A = 55^{\circ}\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.				RGFZ10A . . . 10M Series				Units
Maximum Ratings	10A	10B	10D	10G	10J	10K	10M	
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 _A = 55°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	.....			1.3	.....			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	.....			5.0	.....			μAmps
T _A = 25°C	.....			200	.....			μAmps
T _A = 150°C	.....			200	.....			μAmps
Typical Thermal Resistance...R _{θJA} (Note 2)	.....			45	.....			°C/W
Maximum Reverse Recovery Time...t _{RR} (Note 3)	< 150 >			250	< 500 >			nS
Operating & Storage Temperature Range...T _J , T _{STRG}	.....			-65 to 175	.....			°C



1.0 Amp Glass Passivated Sintered Fast Switching Rectifiers

RGFZ10A ... 10M Series



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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{RR} = 0.25\mu\text{s}$.