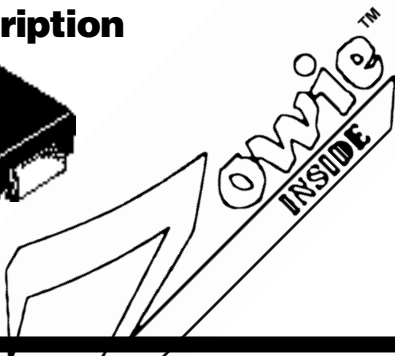


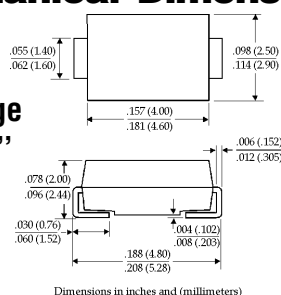
1.5 Amp Glass Passivated Sintered Fast Recovery Rectifiers

Description



Mechanical Dimensions

Package "SMA"



Features

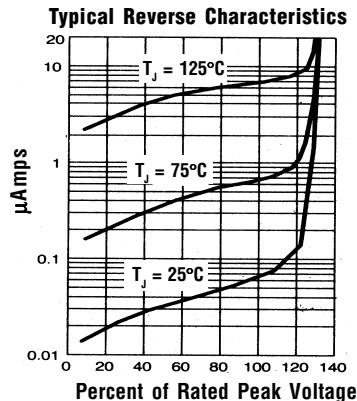
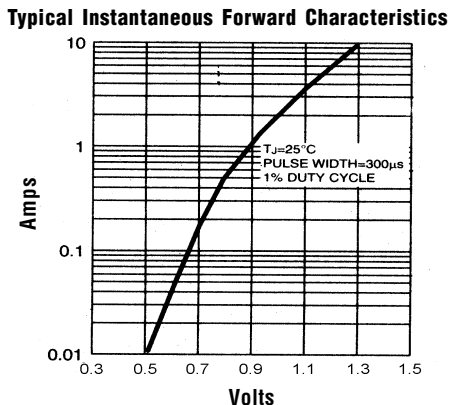
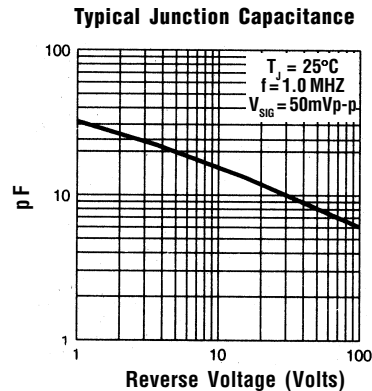
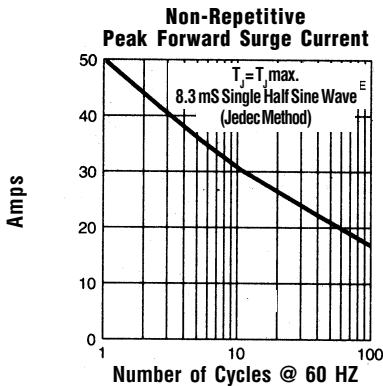
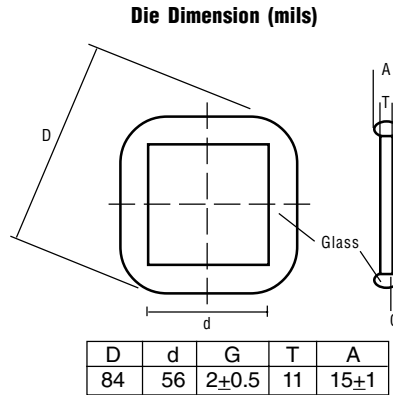
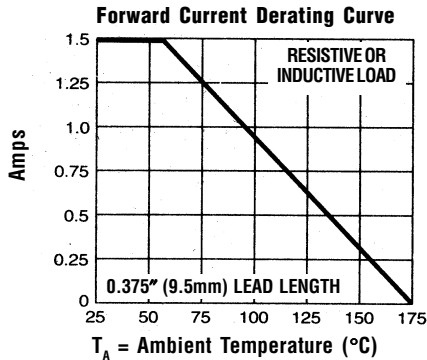
- **LOWEST COST FOR GLASS SINTERED FAST RECOVERY CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED FAST RECOVERY CONSTRUCTION**
- **TYPICAL $I_p < 100$ nAmps**
- **1.5 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.	RGFZ15A . . . 15M Series							Units
Maximum Ratings	15A	15B	15D	15G	15J	15K	15M	
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 = 55°C (Note 2)	.....			1.5	.....			Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3mS, ½ Sine Wave Superimposed on Rated Load	.....			50	.....			Amps
Forward Voltage @ 1.5A...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	T _A = 25°C .....	.....		5.0	.....			µAmps
	T _A = 150°C .....	.....		200	.....			
Typical Junction Capacitance...C _J (Note 1)	.....			25	.....			pF
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



1.5 Amp Glass Passivated Sintered Fast Switching Rectifiers

RGFZ15A ... 15M 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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{RR} = 0.25\mu\text{s}$.