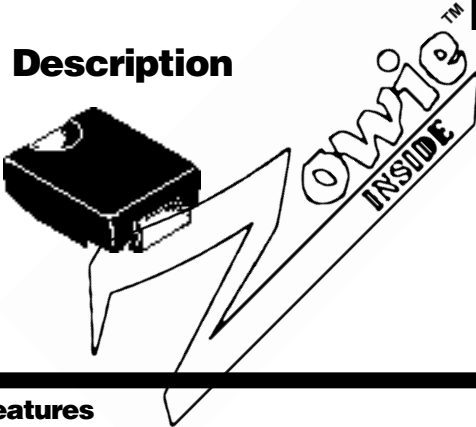




3.0 Amp Glass Passivated Sintered Fast Recovery Rectifiers

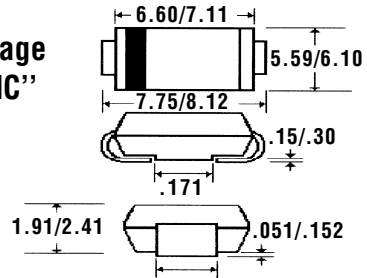
RGFZ30A . . . 30M Series

Description



Mechanical Dimensions

Package
"SMC"



Features

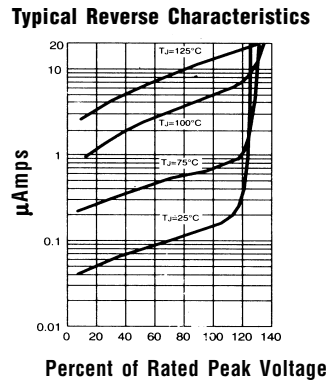
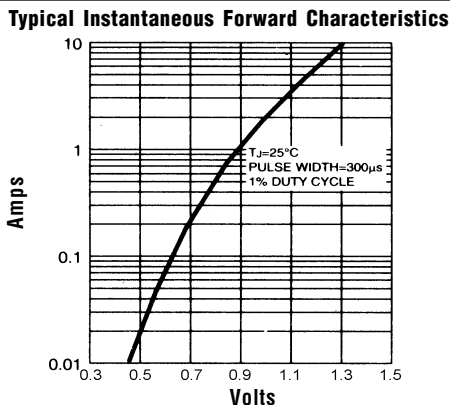
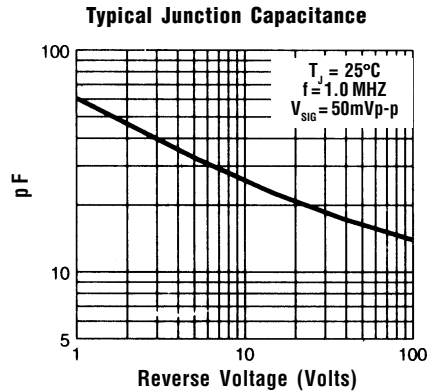
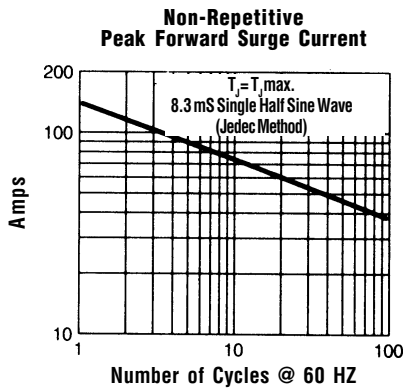
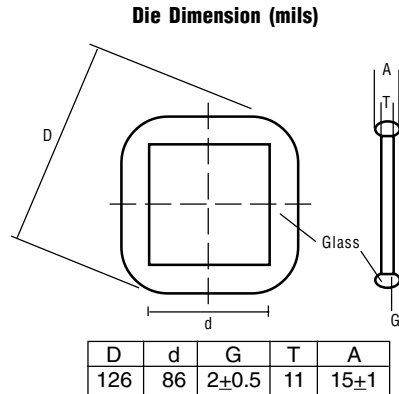
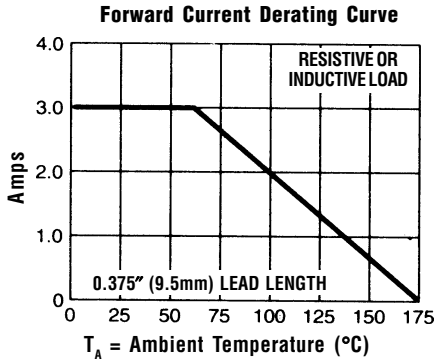
- LOWEST COST FOR GLASS SINTERED FAST RECOVERY CONSTRUCTION
- LOWEST V_F FOR GLASS SINTERED FAST RECOVERY CONSTRUCTION
- TYPICAL $I_R < 100$ nAmps
- 3.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- SINTERED GLASS CAVITY-FREE JUNCTION

Electrical Characteristics @ 25°C.				RGFZ30A . . . 30M Series				Units	
Maximum Ratings		30A	30B	30D	30G	30J	30K	30M	
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)} Current 3/8" Lead Length @ T _A = 55°C					3.0				Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3mS, ½ Sine Wave Superimposed on Rated Load					125				Amps
Forward Voltage @ 3.0A...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	T _A = 25°C				5.0				μAmps
	T _A = 125°C				100				
Typical Junction Capacitance...C _j (Note 1)					60				pF
Typical Thermal Resistance...R _{θJA} (Note 2)					15				°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



3.0 Amp Glass Passivated Sintered Fast Switching Rectifiers

RGFZ30A . . . 30M 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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.