



1.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

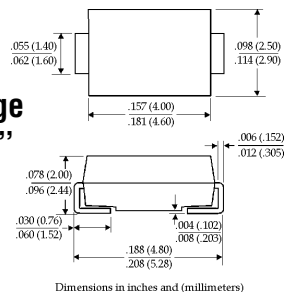
Description



owic
INSIDE™

Mechanical Dimensions

Package
“SMA”



Dimensions in inches and (millimeters)

Features

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

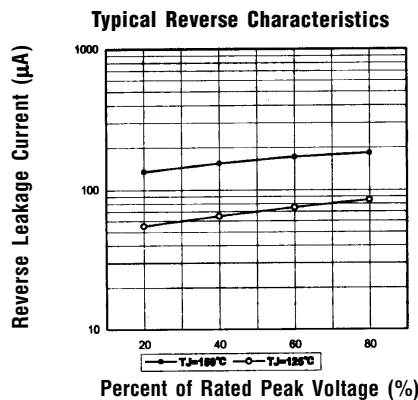
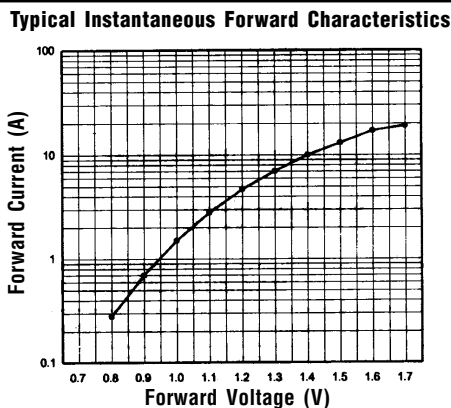
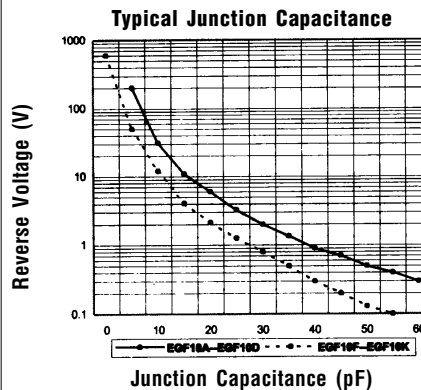
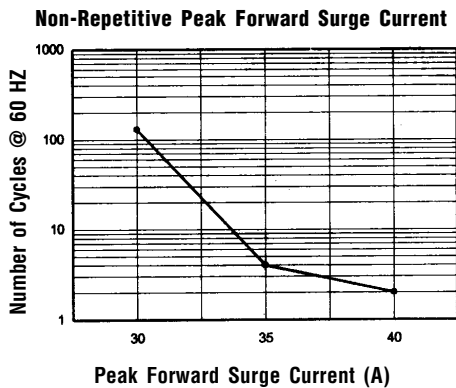
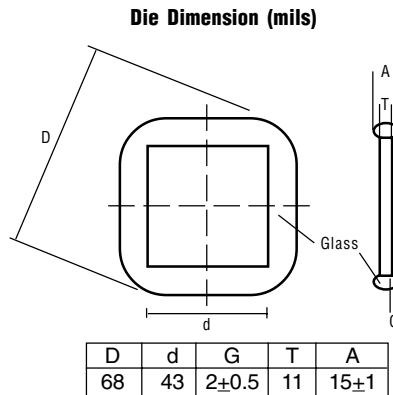
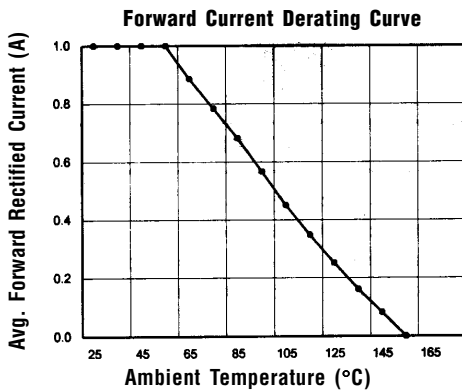
EGFZ10A . . . 10M Series

Electrical Characteristics @ 25°C.				EGFZ10A . . . 10K Series				Units
Maximum Ratings	10A	10B	10D	10G	10J	10K		
Peak Repetitive Reverse Voltage...V _{RRM}	50	100	200	400	600	800	Volts	
RMS Reverse Voltage...V _{R(rms)}	35	70	140	280	420	560	Volts	
DC Blocking Voltage...V _{DC}	50	100	200	400	600	800	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	<	1.0	..... >	1.3	<	1.7	..... > Volts
DC Reverse Current...I _{R(max)} @ Rated DC Blocking Voltage	T _A = 25°C			5.0	.....		μAmps
	T _A = 125°C			100	.....		μAmps
Typical Thermal Resistance...R _{θJA} (Note 2)	.....			27	.....		°C/W
Maximum Reverse Recovery Time...t _{RR} (Note 3)	<	50 >	<	75 >	nS	
Operating & Storage Temperature Range...T _J , T _{STRG}			-65 to 150		°C	



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EGFZ10A ... 10K Series



- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
 3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $t_{RR} = 0.25A$.

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%.