

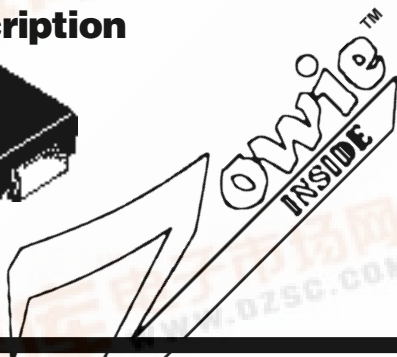


Preliminary Data Sheet

1.5 Amp Glass Passivated Sintered Fast Efficient Rectifiers

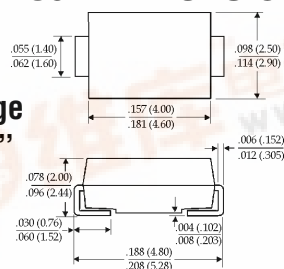
EGFZ15A . . . 15M Series

Description



Mechanical Dimensions

Package "SMA"



Features

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

Electrical Characteristics @ 25°C.	EGFZ15A . . . 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... $I_{F(av)}$ @ $T_L = 55^\circ\text{C}$ (Note 2)	1.5							Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load	50							Amps
Forward Voltage @ 1.5A... V_F	< 1.0 > 1.3 < 1.7 >							Volts
DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$ 5.0 $T_A = 125^\circ\text{C}$ 100							μAmps
Typical Junction Capacitance... C_j (Note 1)	25							pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	45							$^\circ\text{C/W}$
Maximum Reverse Recovery Time... t_{RR} (Note 3)	< 50 > < 75 >							nS
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 150							$^\circ\text{C}$



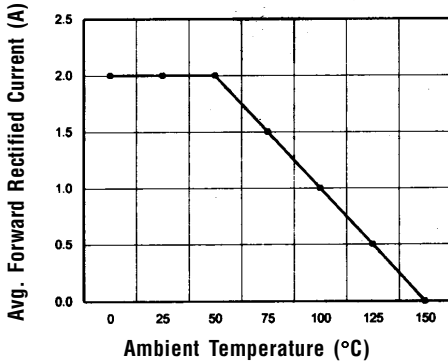


Preliminary Data Sheet

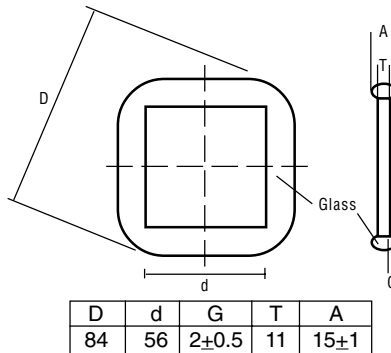
1.5 Amp Glass Passivated Sintered Fast Efficient Rectifiers

EGFZ15A . . . 15M Series

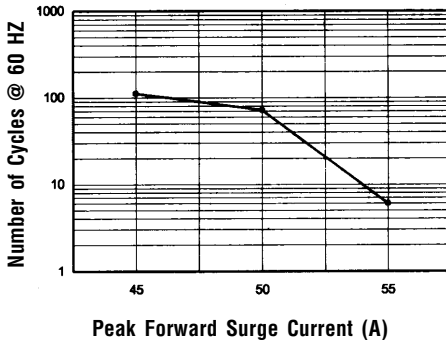
Forward Current Derating Curve



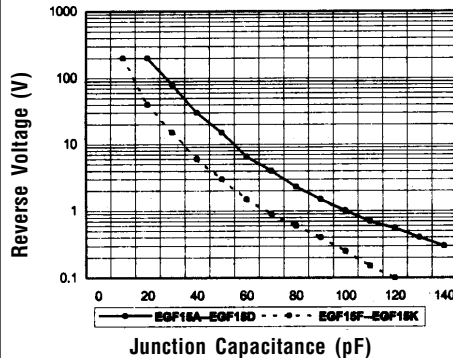
Die Dimension (mils)



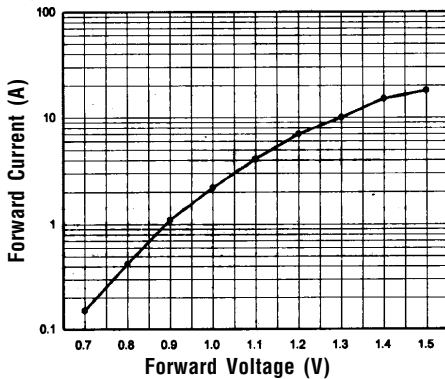
Non-Repetitive Peak Forward Surge Current



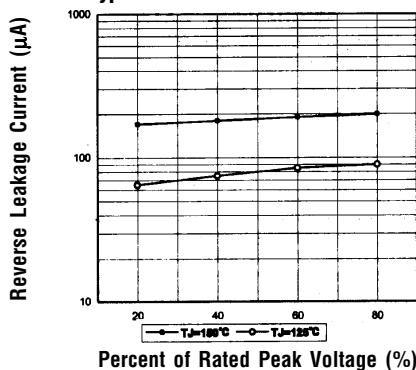
Typical Junction Capacitance



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. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
 3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $t_{rr} = 0.25A$.