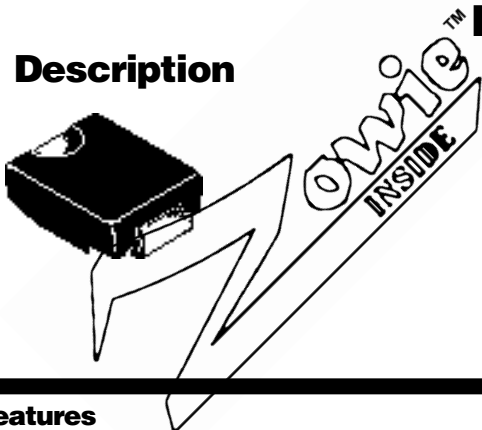




# 3.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

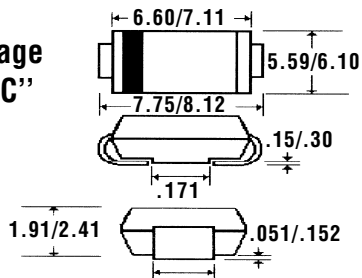
EGFZ30A . . . 30M Series

## Description



## Mechanical Dimensions

Package  
"SMC"



## Features

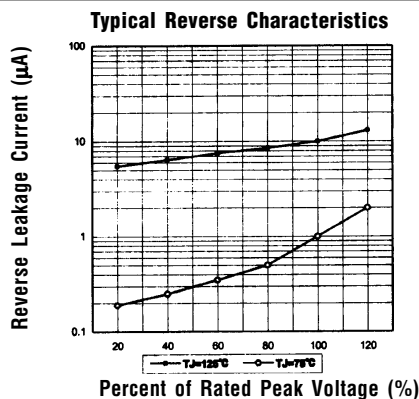
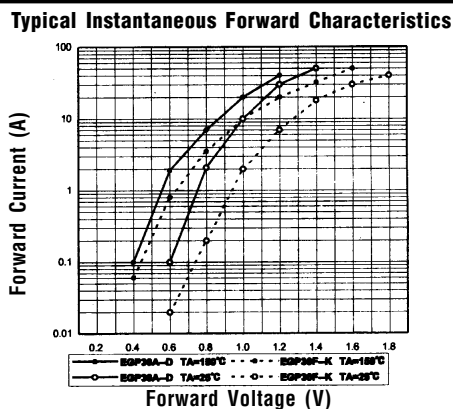
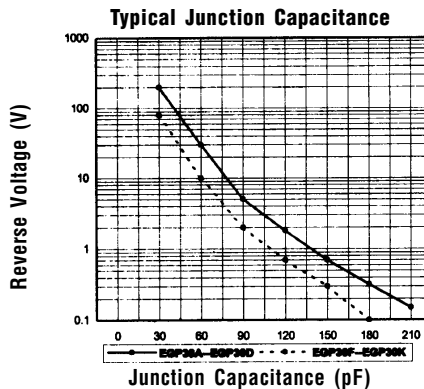
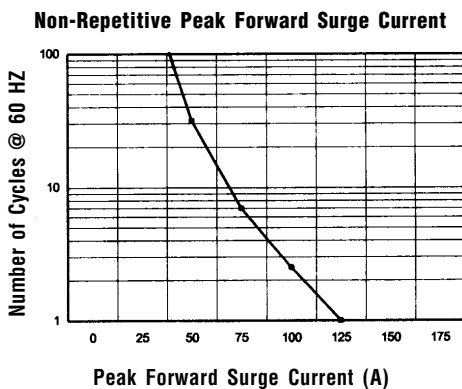
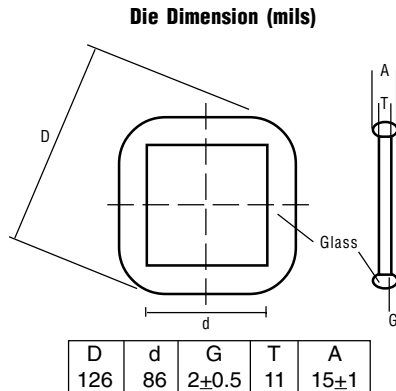
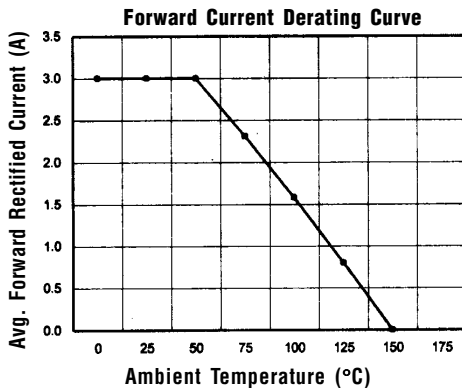
- LOWEST COST FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION
- LOWEST  $V_F$  FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION
- TYPICAL  $I_R < 100$  nAmps
- 3.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY
- SINTERED GLASS CAVITY-FREE JUNCTION

Electrical Characteristics @ 25°C.		EGFZ30A . . . 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 @ $T_A = 55^\circ\text{C}$		3.0							Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ 8.3ms, 1/2 Sine Wave Superimposed on Rated Load		125							Amps
Forward Voltage @ 3.0A... $V_F$		< ..... 1.0 ..... > 1.3 < ..... 1.7 ..... >							Volts
DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	5.0 100							$\mu\text{Amps}$
Typical Junction Capacitance... $C_j$ (Note 1)		60							pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)		15							$^\circ\text{C/W}$
Maximum Reverse Recovery Time... $t_{RR}$ (Note 3)		< ..... 50 ..... > < ..... 75 ..... >							nS
Operating & Storage Temperature Range... $T_J, T_{STRG}$		-65 to 150							$^\circ\text{C}$



# 3.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

EGFZ30A . . . 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. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
  3. Reverse Recovery Condition  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .