

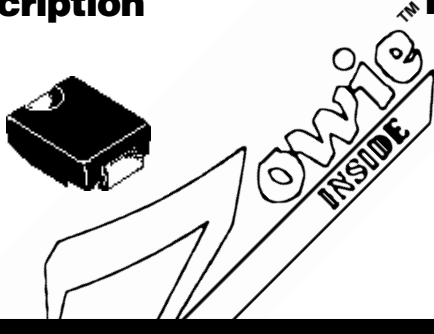


Preliminary Data Sheet

1.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

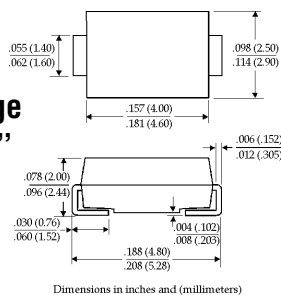
EGFZ10A . . . 10M Series

Description



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**

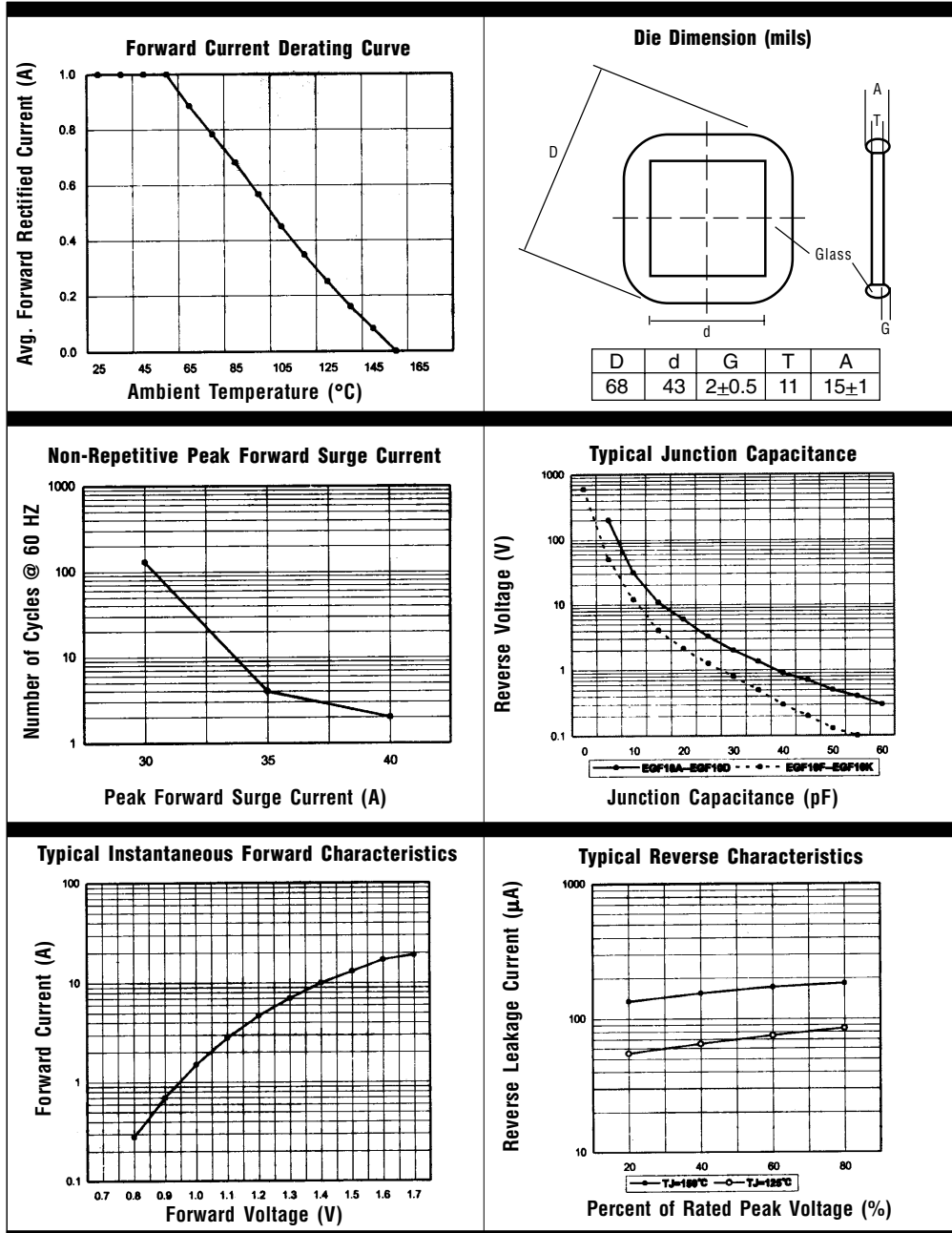
Electrical Characteristics @ 25°C.	EGFZ10A . . . 10K Series						Units
Maximum Ratings	10A	10B	10D	10G	10J	10K	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	Volts
Average Forward Rectified Current... $I_{F(av)}$ @ $T_A = 55^\circ\text{C}$ (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				$T_A = 25^\circ\text{C}$ 5.0			μAmps
				$T_A = 125^\circ\text{C}$ 100			μAmps
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	27						$^\circ\text{C/W}$
Maximum Reverse Recovery Time... t_{RR} (Note 3)	< 50 >			< 75 >			nS
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 150						$^\circ\text{C}$



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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%.