



1.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

EGFZ10A . . . 10M Series

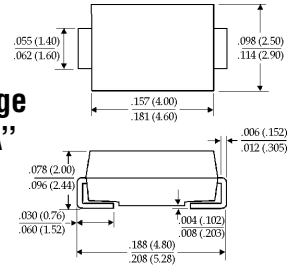
Description



OWIE™
INSIDE

Mechanical Dimensions

Package
"SMA"



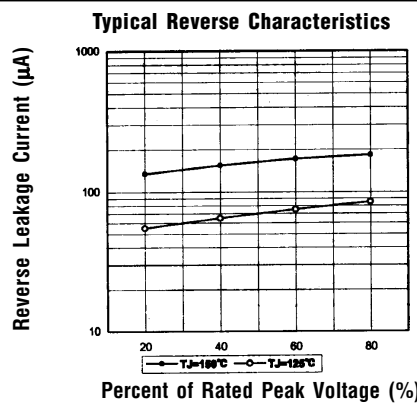
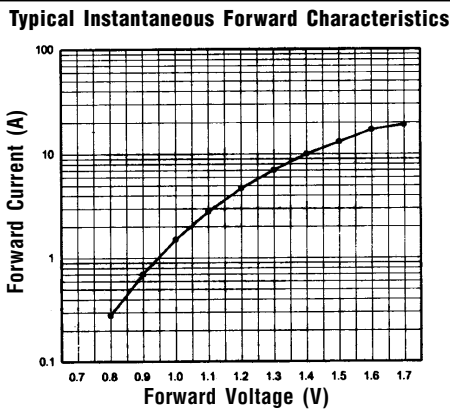
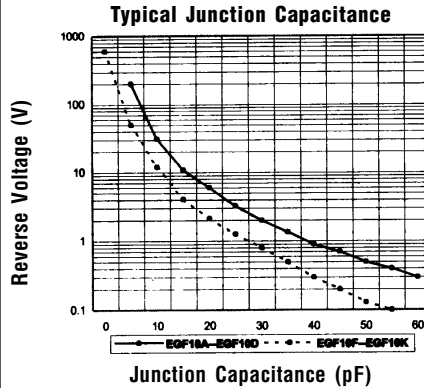
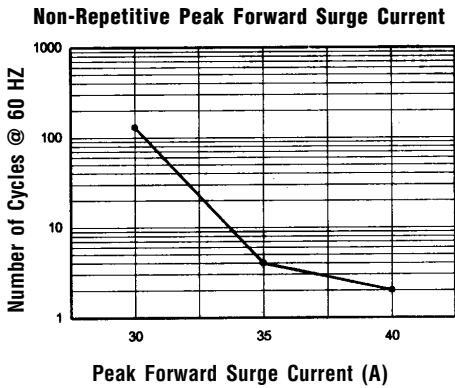
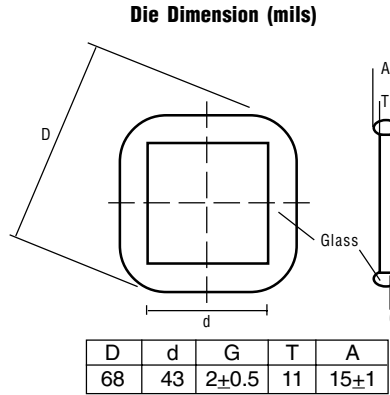
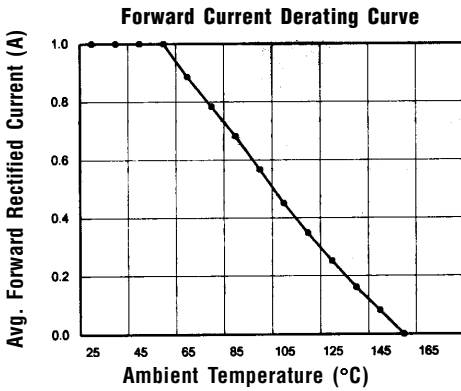
Features

- **LOWEST COST FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **1.0 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 | | | | | | °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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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.