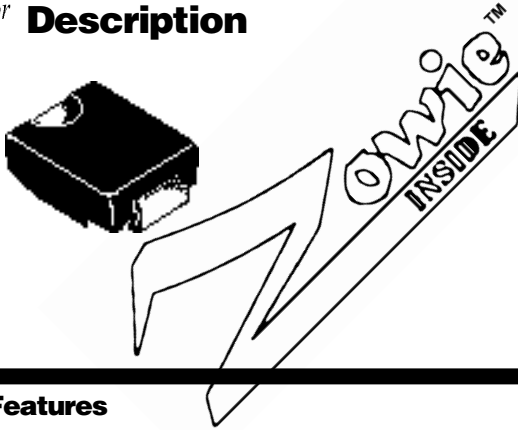


Description

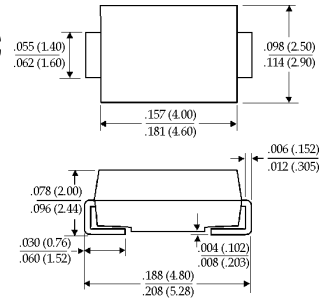
1.5 Amp Glass Passivated Sintered Rectifiers

Mechanical Dimensions

GFZ15A . . . 15M Series



DO-214AC (SMA)

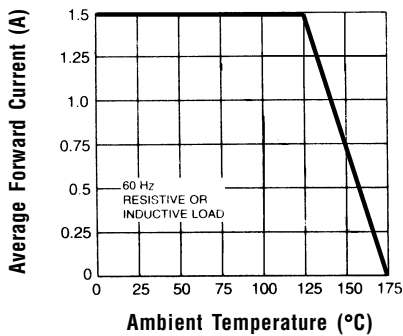


Features

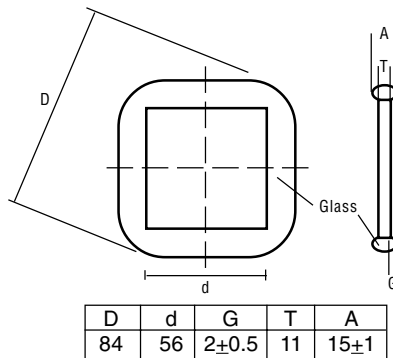
- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL I_{Rr} < 100 nAmps**
- **1.5 AMP OPERATION @ $T_A = 125^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

| GFZ15A . . . 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... $I_{F(av)}$ @ $T_L = 125^\circ\text{C}$ (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 |
| Operating & Storage Temperature Range... T_J, T_{STRG} | -65 to 175 | | | | | | | $^\circ\text{C}$ |
| Electrical Characteristics | | | | | | | | |
| Maximum Forward Voltage @ 1.5A... V_F | < 1.1 > < 1.2 > | | | | | | | Volts |
| Maximum Full Load Reverse Current... $I_{R(av)}$ Full Cycle Average @ $T_A = 55^\circ\text{C}$ | 100 | | | | | | | μAmps |
| Maximum DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage | 5.0 | | | | | | | μAmps |
| | 100 | | | | | | | |
| Typical Junction Capacitance... C_j (Note 1) | 15 | | | | | | | pF |
| Typical Thermal Resistance... $R_{\theta JA}$ (Note 2) | 45 | | | | | | | $^\circ\text{C}/\text{W}$ |
| Typical Reverse Recovery Time... t_{RR} (Note 3) | 2.0 | | | | | | | μs |

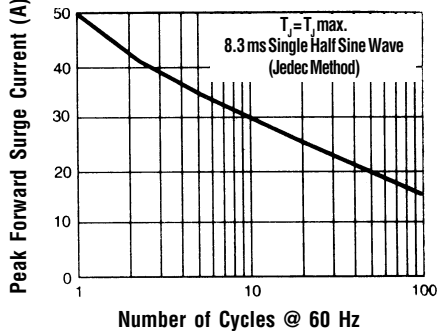
Forward Current Derating Curve



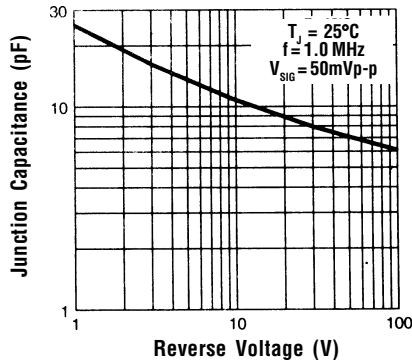
Die Dimension (mils)



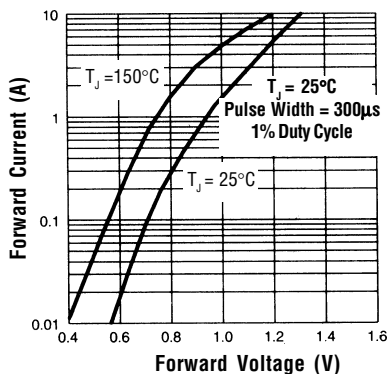
Non-Repetitive Peak Forward Surge Current



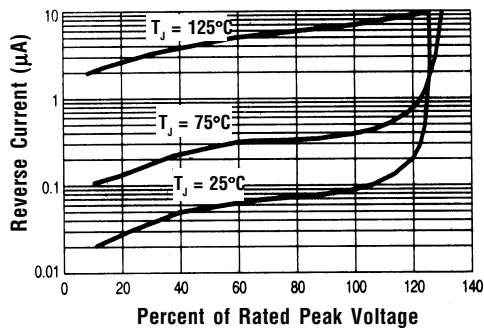
Typical Junction Capacitance



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. 5.0mm² (.013mm thick) land areas.
 3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.