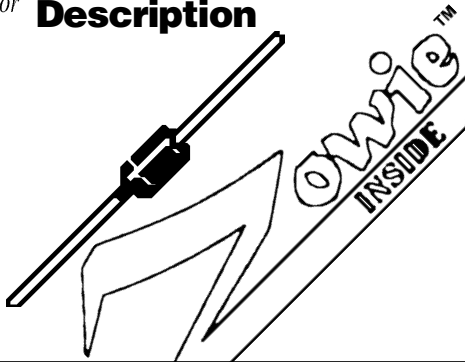


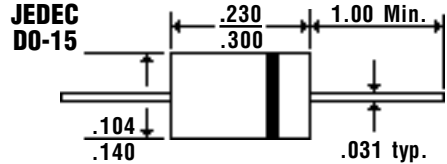


1.5 Amp Glass Passivated Sintered Fast Switching Rectifiers

Description



Mechanical Dimensions



RGPZ15A . . . 15M Series

Features

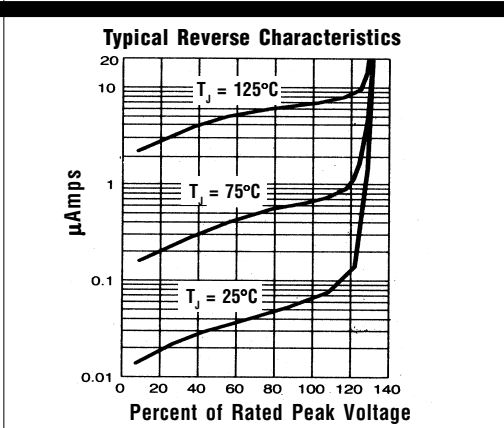
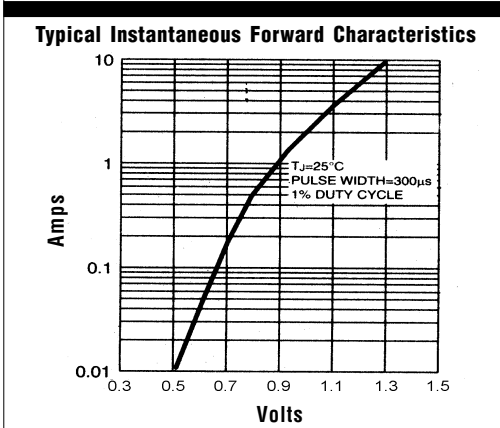
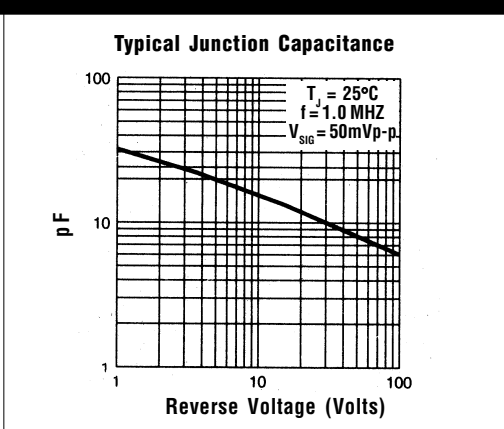
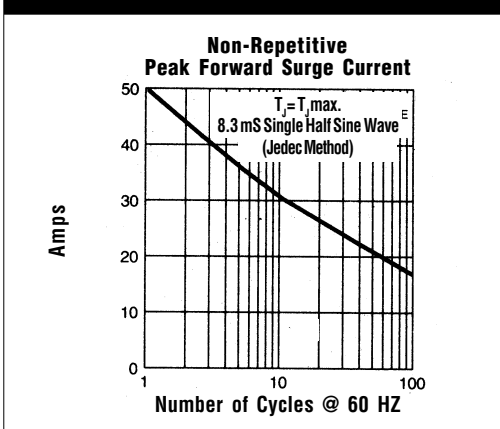
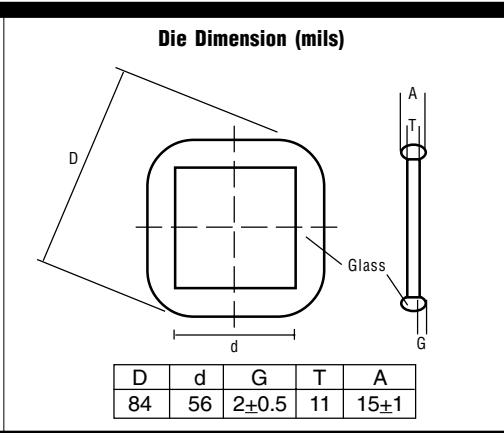
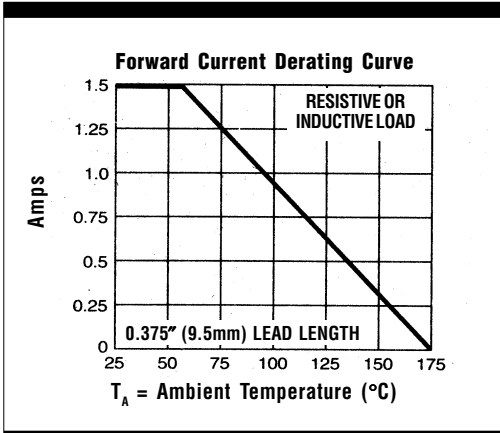
- **LOWEST COST FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **1.5 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

| Electrical Characteristics @ 25°C. | RGPZ15A . . . 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... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 55^\circ\text{C}$ | 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 @ Rated Forward Current and 25°C... V_F | 1.2 | | | | | | | Volts |
| Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$ | 100 | | | | | | | μAmps |
| DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage | $T_A = 25^\circ\text{C}$ | | | | | | | μAmps |
| | $T_A = 150^\circ\text{C}$ | | | | | | | μAmps |
| Typical Junction Capacitance... C_J (Note 1) | 25 | | | | | | | pF |
| Maximum Thermal Resistance... $R_{\theta JA}$ (Note 2) | 30 | | | | | | | °C/W |
| Maximum Reverse Recovery Time... t_{RR} (Note 3) | < 150 > 250 < 500 > | | | | | | | nS |
| Operating & Storage Temperature Range... T_J, T_{STRG} | -65 to 175 | | | | | | | °C |



1.5 Amp Glass Passivated Sintered Fast Switching Rectifiers

RGPZ15A . . . 15M 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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.