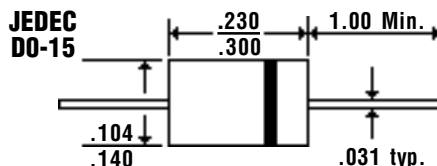
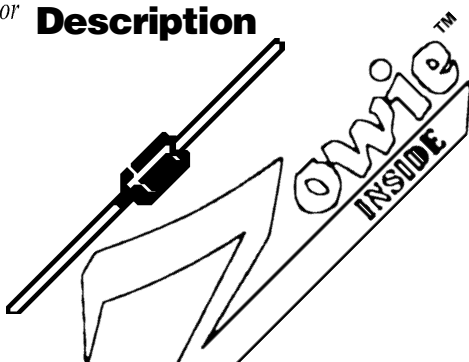


## Description

## 1.5 Amp Glass Passivated Sintered Fast Switching Rectifiers

## Mechanical Dimensions



## Features

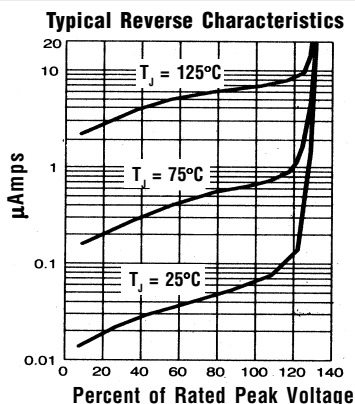
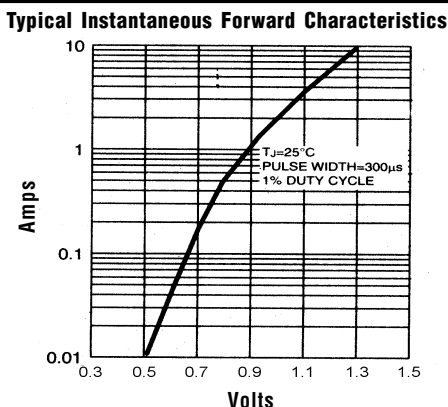
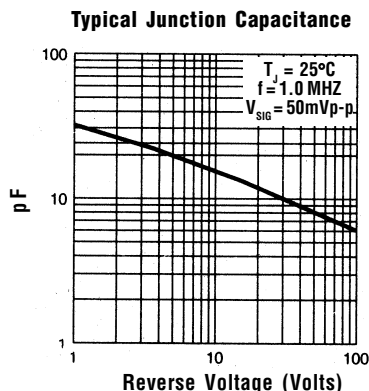
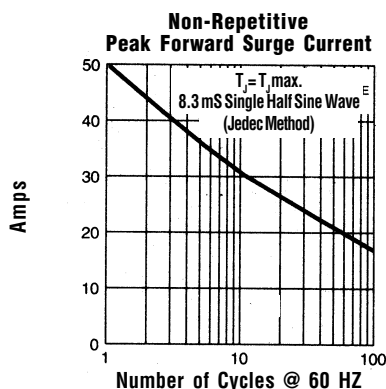
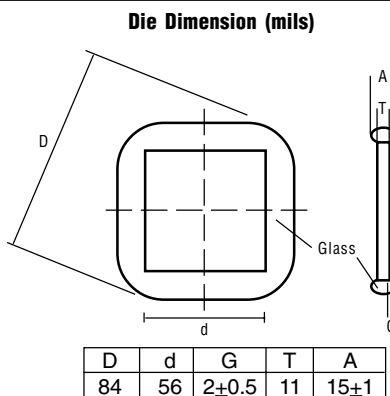
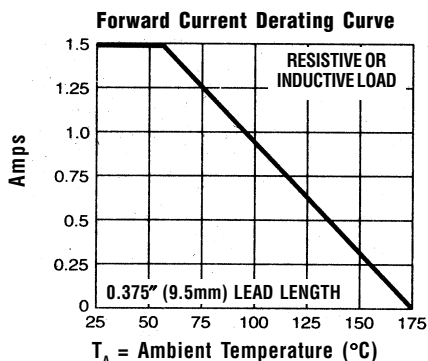
- **LOWEST COST FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **LOWEST  $V_F$  FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **TYPICAL  $I_p < 100$  nAmps**
- **1.5 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.		RGPZ15A . . . 15M Series							Units
<b>Maximum Ratings</b>		<b>15A</b>	<b>15B</b>	<b>15D</b>	<b>15G</b>	<b>15J</b>	<b>15K</b>	<b>15M</b>	
Peak Repetitive Reverse Voltage...V <sub>RRM</sub>		50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...V <sub>R(rms)</sub>		35	70	140	280	420	560	700	Volts
DC Blocking Voltage...V <sub>DC</sub>		50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...I <sub>F(av)</sub> Current 3/8" Lead Length @ T <sub>A</sub> = 55°C		..... 1.5 .....							Amps
Non-Repetitive Peak Forward Surge Current...I <sub>FSM</sub> 8.3mS, 1/2 Sine Wave Superimposed on Rated Load		..... 50 .....							Amps
Forward Voltage @ Rated Forward Current and 25°C...V <sub>F</sub>		..... 1.2 .....							Volts
Full Load Reverse Current...I <sub>R</sub> (av) Full Cycle Average @ T <sub>A</sub> = 55°C		..... 100 .....							μAmps
DC Reverse Current...I <sub>R(max)</sub> @ Rated DC Blocking Voltage	T <sub>A</sub> = 25°C	..... 5.0 .....							μAmps
	T <sub>A</sub> = 150°C	..... 200 .....							μAmps
Typical Junction Capacitance...C <sub>J</sub> (Note 1)		..... 25 .....							pF
Maximum Thermal Resistance...R <sub>θJA</sub> (Note 2)		..... 30 .....							°C/W
Maximum Reverse Recovery Time...t <sub>RR</sub> (Note 3)		< ..... 150 .....	> 250		< ..... 500 .....		>		nS
Operating & Storage Temperature Range...T <sub>J</sub> , T <sub>STRG</sub>		..... -65 to 175 .....							°C



# 1.5 Amp Glass Passivated Sintered Fast Switching Rectifiers

**RGPZ15A . . . 15M Series**



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

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%.