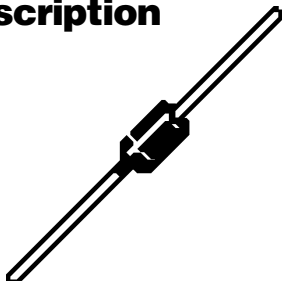
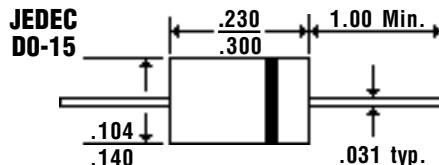


## Description



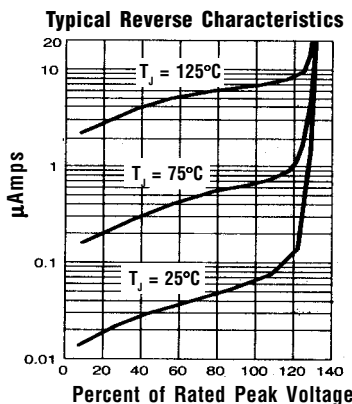
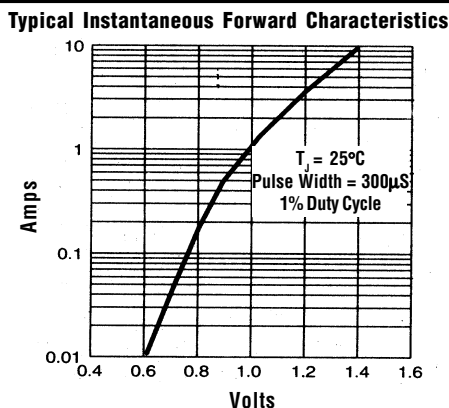
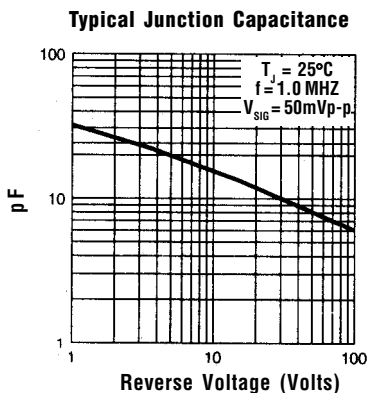
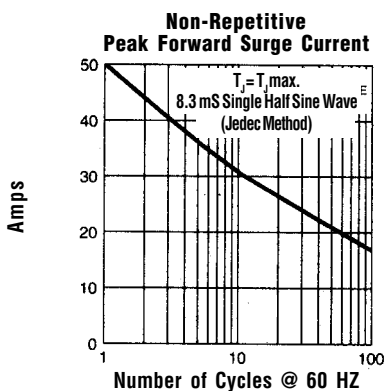
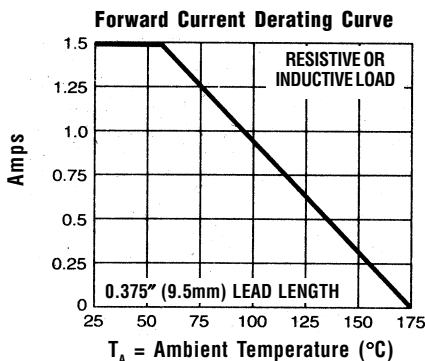
## Mechanical Dimensions



## Features

- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **1.5 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **TYPICAL  $I_R < 0.1 \mu\text{Amp}$**

Electrical Characteristics @ 25°C.		RGP15A . . . 15M Series							Units
Maximum Ratings		RGP15A	RGP15B	RGP15D	RGP15G	RGP15J	RGP15K	RGP15M	
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, ½ Sine Wave Superimposed on Rated Load		50							Amps
Forward Voltage @ Rated Forward Current and 25°C...V <sub>F</sub>		1.3							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</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
Typical Thermal Resistance...R <sub>θJA</sub> (Note 2)		45							°C/W
Typical 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



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