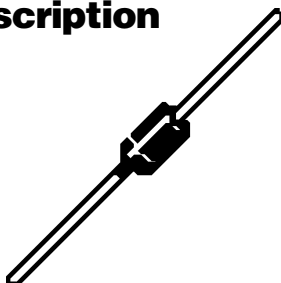
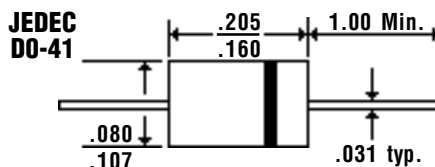


## Description



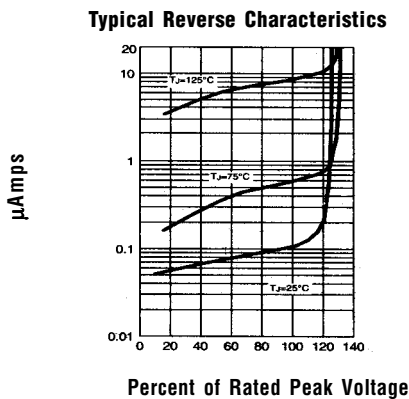
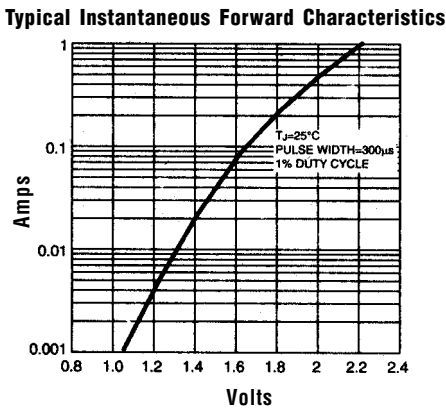
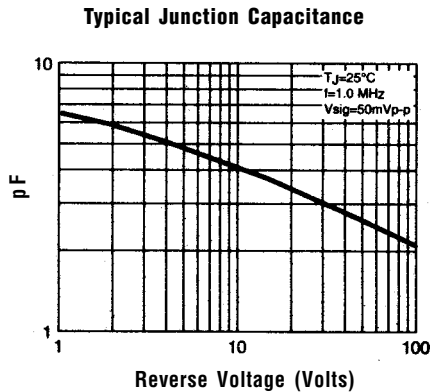
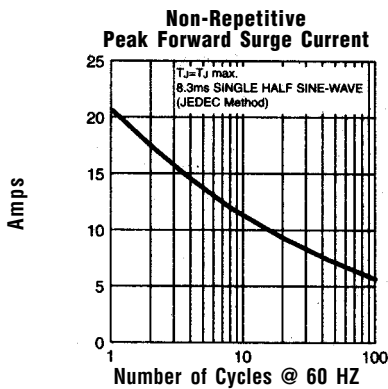
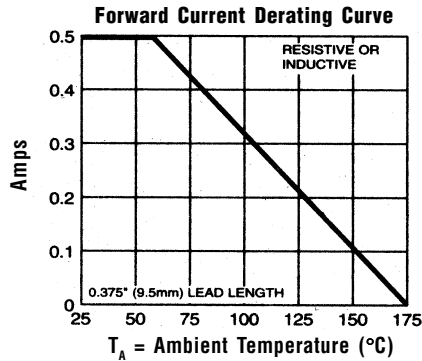
## Mechanical Dimensions



## Features

- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **0.5 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **TYPICAL  $I_R < 0.2 \mu\text{Amp}$**

Electrical Characteristics @ 25°C.	RGP02-12E . . . -20E Series					Units
Maximum Ratings	RGP02-12E	RGP02-14E	RGP02-16E	RGP02-8E	RGP02-20E	
Peak Repetitive Reverse Voltage... $V_{RRM}$	1200	1400	1600	1800	2000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	840	980	1120	1260	1400	Volts
DC Blocking Voltage... $V_{DC}$	1200	1400	1600	1800	2000	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 55^\circ\text{C}$			0.5			Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ 8.3ms, 1/2 Sine Wave Superimposed on Rated Load			20			Amps
Forward Voltage @ 0.1A and 25°C... $V_F$			1.8			Volts
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$			100			$\mu\text{Amps}$
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage						
$T_A = 25^\circ\text{C}$			5.0			$\mu\text{Amps}$
$T_A = 125^\circ\text{C}$			50			$\mu\text{Amps}$
Typical Junction Capacitance... $C_j$ (Note 1)			5.0			pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)			65			$^\circ\text{C/W}$
Typical Reverse Recovery Time... $t_{RR}$ (Note 3)			300			nS
Operating & Storage Temperature Range... $T_J, T_{STRG}$			-65 to 175			$^\circ\text{C}$



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