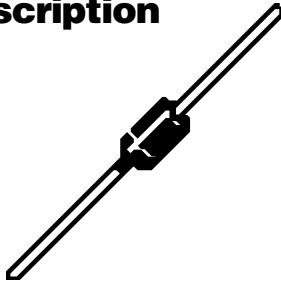
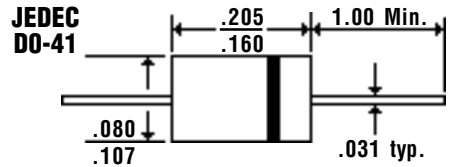


## Description



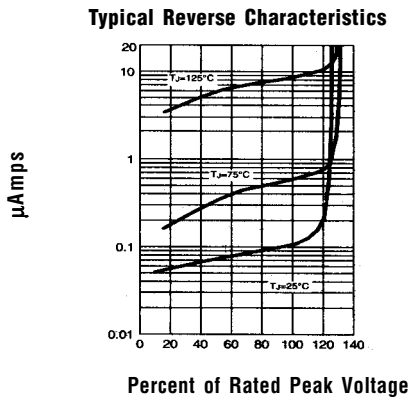
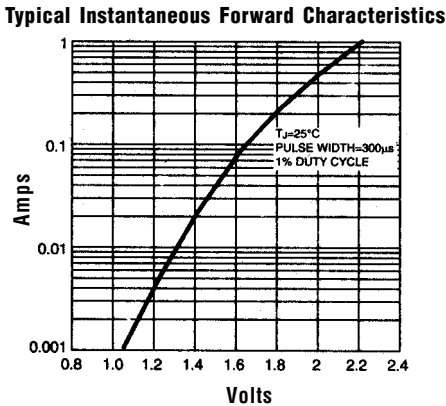
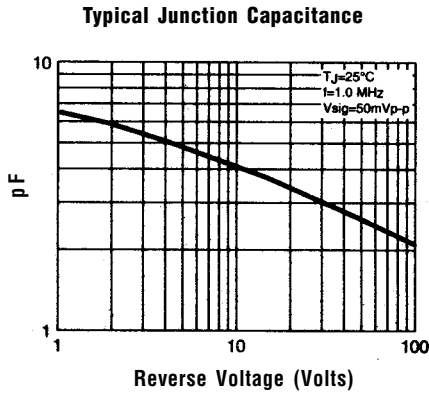
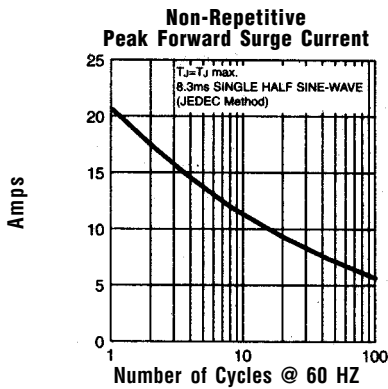
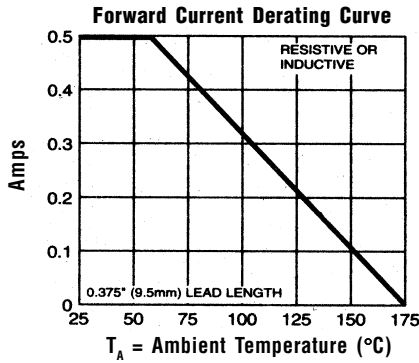
## Mechanical Dimensions



## Features

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

Electrical Characteristics @ 25°C.	RGPO2-12E . . . -20E Series					Units
Maximum Ratings	RGPO2-12E	RGPO2-14E	RGPO2-16E	RGPO2-8E	RGPO2-20E	
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				5.0		$\mu\text{Amps}$
				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  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$ .