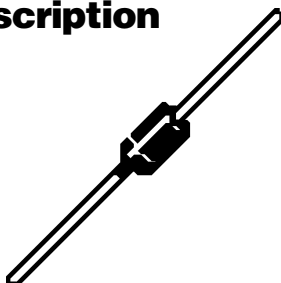
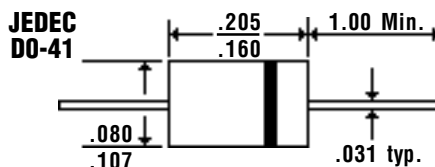


Description



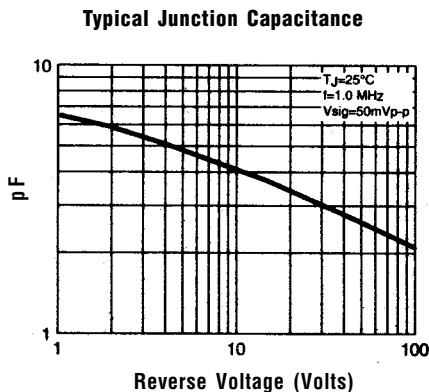
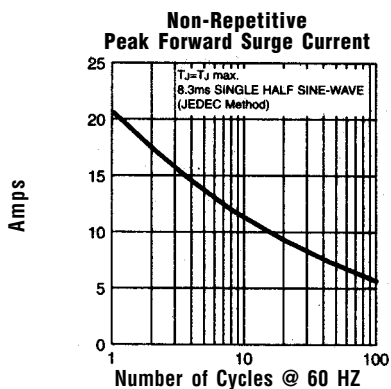
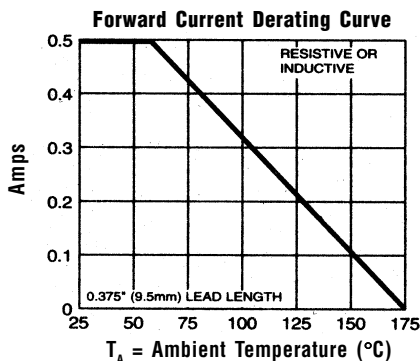
Mechanical Dimensions



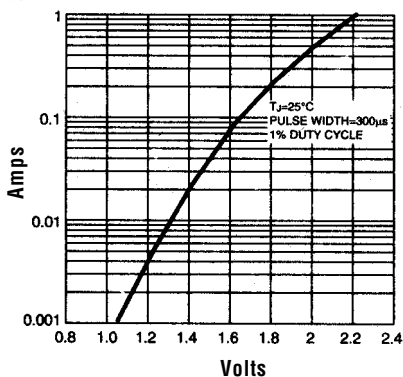
Features

- **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 $I_R < 0.2 \mu\text{Amp}$**

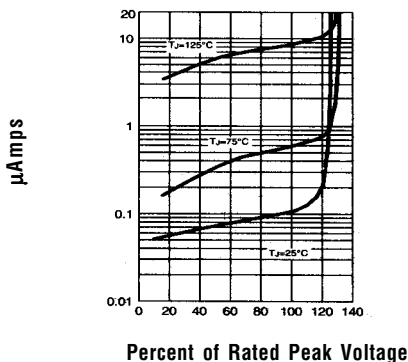
Electrical Characteristics @ 25°C.		RGP02-12E . . . -20E Series					Units
Maximum Ratings		RGP02-12E	RGP02-14E	RGP02-16E	RGP02-8E	RGP02-20E	
Peak Repetitive Reverse Voltage... V_{RRM}		1200	1400	1600	1800	2000	Volts
RMS Reverse Voltage... $V_{R(rms)}$		840	980	1120	1260	1400	Volts
DC Blocking Voltage... 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			μAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$			5.0			μAmps
	$T_A = 125^\circ\text{C}$			50			μAmps
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			$^\circ\text{C}$



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



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