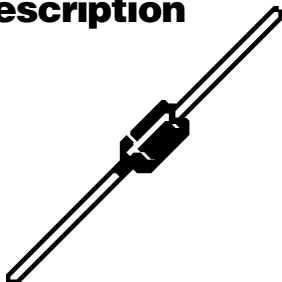
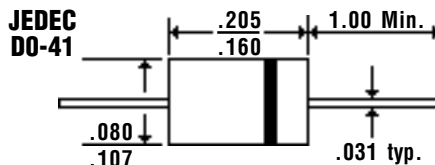


Description



Mechanical Dimensions

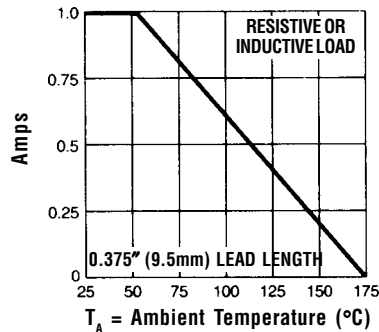


Features

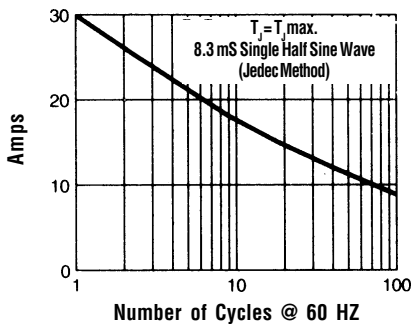
- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **TYPICAL $I_R < 0.1 \mu\text{Amp}$**

Electrical Characteristics @ 25°C.	RGP10A . . . 10M Series							Units
Maximum Ratings	RGP10A	RGP10B	RGP10D	RGP10G	RGP10J	RGP10K	RGP10M	
Peak Repetitive Reverse Voltage...V _{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...V _{R(rms)}	35	70	140	280	420	560	700	Volts
DC Blocking Voltage...V _{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...I _{F(av)} Current 3/8" Lead Length @ T _A = 75°C	1.0							Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3mS, ½ Sine Wave Superimposed on Rated Load	30							Amps
Forward Voltage @ 1.0A...V _F	1.3							Volts
Full Load Reverse Current...I _{R(av)} Full Cycle Average @ T _A = 55°C	100							μAmps
DC Reverse Current...I _R @ Rated DC Blocking Voltage	T _A = 25°C	5.0				μAmps		
	T _A = 150°C	200				μAmps		
Typical Junction Capacitance...C _J (Note 1)	15							pF
Typical Thermal Resistance...R _{θJA} (Note 2)	55							°C/W
Typical Reverse Recovery Time...t _{RR} (Note 3)	< 150 >				250	< 500 >		nS
Operating & Storage Temperature Range...T _J , T _{STRG}	-65 to 175							°C

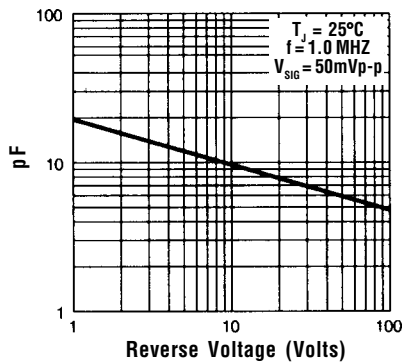
Forward Current Derating Curve



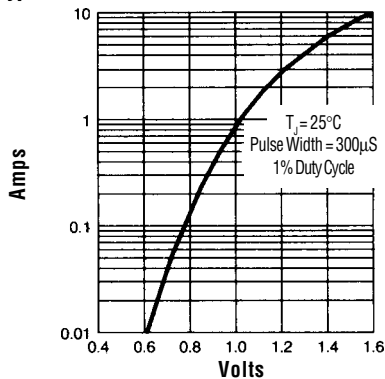
**Non-Repetitive
Peak Forward Surge Current**



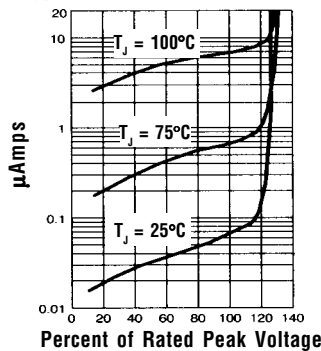
Typical Junction Capacitance



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