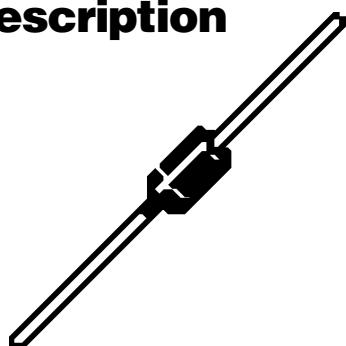
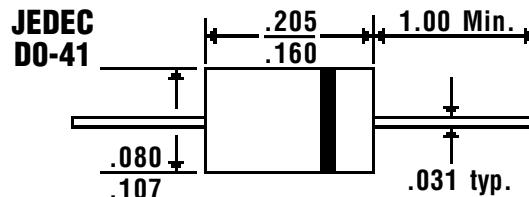


Description



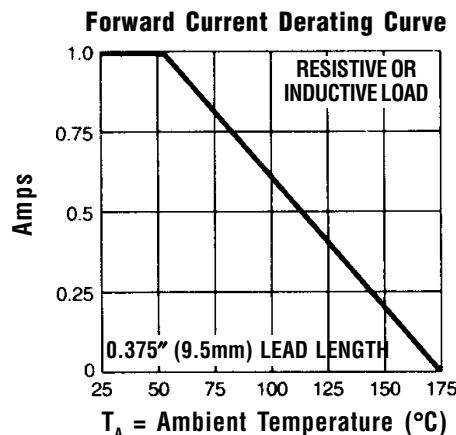
Mechanical Dimensions



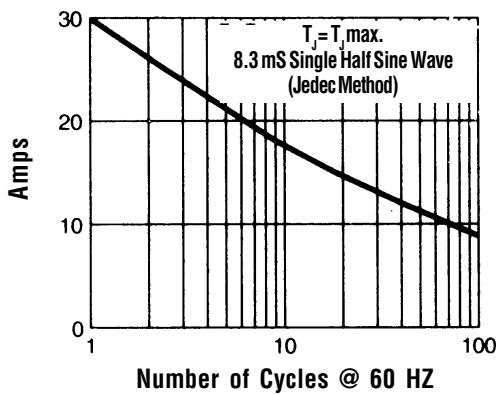
Features

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

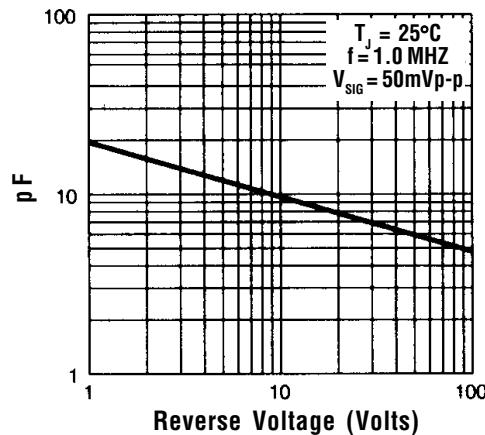
Electrical Characteristics @ 25°C.	RGP10A . . . 10M Series							Units
Maximum Ratings	RGP10A RGP10B RGP10D RGP10G RGP10J RGP10K RGP10M							
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 75^\circ\text{C}$	.....	.....	.....	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 @ $T_A = 55^\circ\text{C}$	.....	.....	.....	100	.....	.....	.....	μAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	.....	.....	5.0	.....	.....	.....	μAmps
	$T_A = 150^\circ\text{C}$	.....	.....	200	.....	.....	.....	μAmps
Typical Junction Capacitance... C_J (Note 1)	.....	.....	.....	15	.....	.....	.....	pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....	.....	.....	55	.....	.....	.....	$^\circ\text{C}/\text{W}$
Typical Reverse Recovery Time... t_{RR} (Note 3)	<	150	.....	> 250	<	500	.....	nS
Operating & Storage Temperature Range... T_J , T_{STRG}	.....	.....	-65 to 175	.....	.....	.....	.....	$^\circ\text{C}$



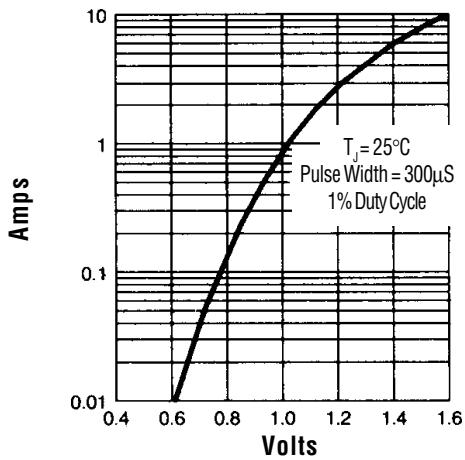
Non-Repetitive Peak Forward Surge Current



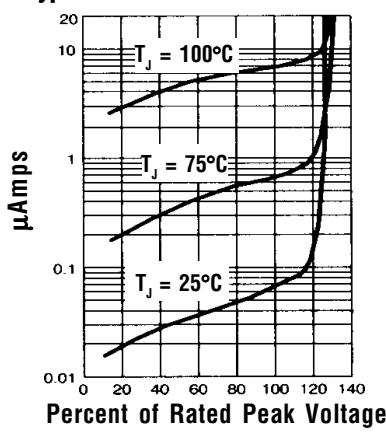
Typical Junction Capacitance



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.