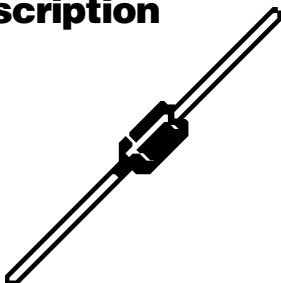
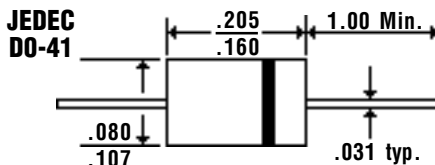


Description



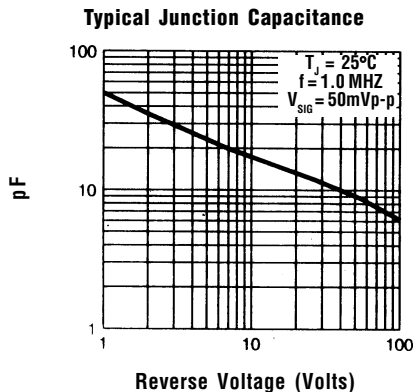
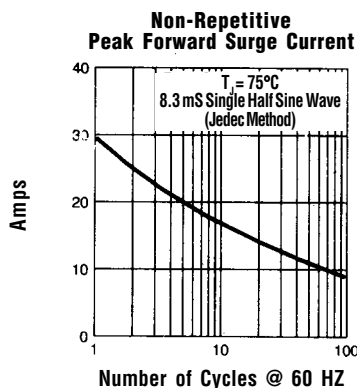
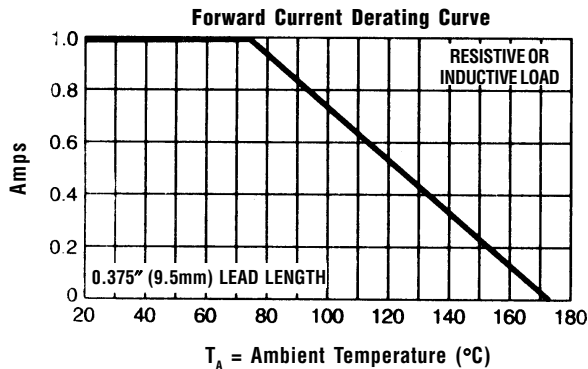
Mechanical Dimensions



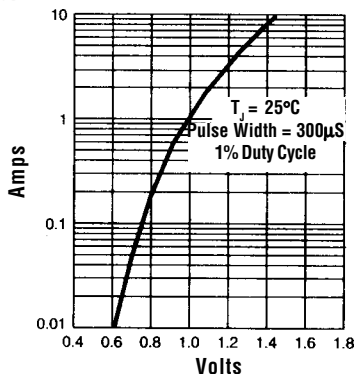
Features

- **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 $I_R < 0.1 \mu\text{Amp}$**

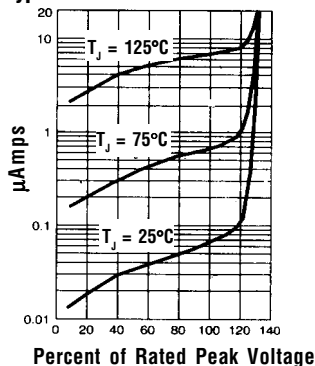
Electrical Characteristics @ 25°C.	GP10A . . . 10M Series							Units
Maximum Ratings	GP10A	GP10B	GP10D	GP10G	GP10J	GP10K	GP10M	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	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} ½ Sine Wave Superimposed on Rated Load	.....			30	.....			Amps
Forward Voltage @ 1.0A... V_F	<			1.1	> < 1.2 >			Volts
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 75^\circ\text{C}$	.....			30	.....			μAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage								μAmps
								μAmps
								μAmps
Typical Junction Capacitance... C_j (Note 1)	<			8.0	> < 7.0 >			pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....			55	.....			$^\circ\text{C/W}$
Typical Reverse Recovery Time... t_{RR} (Note 3)	.....			2.0	.....			μS
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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.