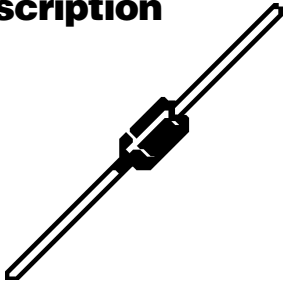
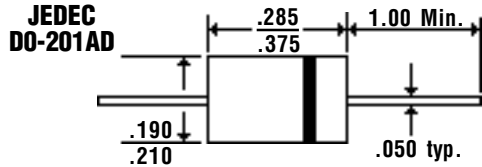


Description



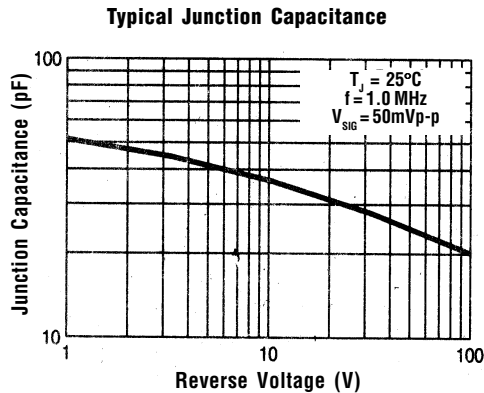
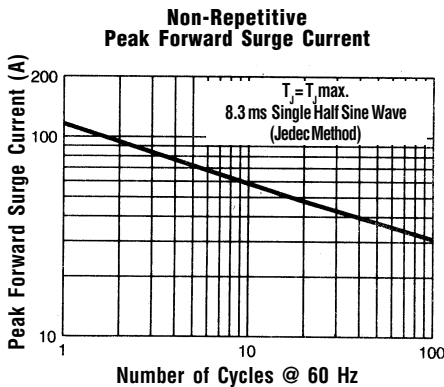
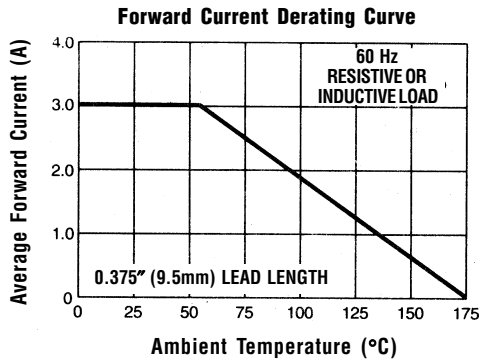
Mechanical Dimensions



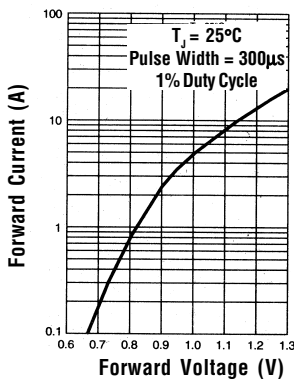
Features

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

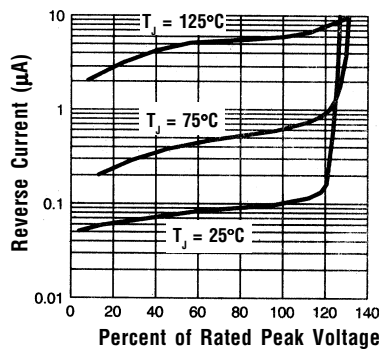
GP30A . . . 30M Series								Units
Maximum Ratings	GP30A	GP30B	GP30D	GP30G	GP30J	GP30K	GP30M	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ 3/8" Lead Length @ $T_A = 55^\circ\text{C}$				3.0				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load				125				Amps
Operating & Storage Temperature Range... T_J, T_{STRG}				-65 to 175				$^\circ\text{C}$
Electrical Characteristics								
Maximum Forward Voltage @ 3.0A... V_F	< 1.2 >			1.1				Volts
Maximum Full Load Reverse Current... $I_{R(av)}$ Full Cycle Average @ $T_A = 55^\circ\text{C}$				100				μAmps
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage				5.0				μAmps
				100				μAmps
Typical Junction Capacitance... C_J (Note 1)				40				pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)				20				$^\circ\text{C/W}$
Typical Reverse Recovery Time... t_{RR} (Note 3)				3.0				μs



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