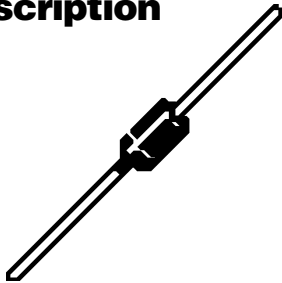
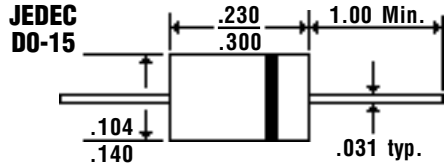


Description



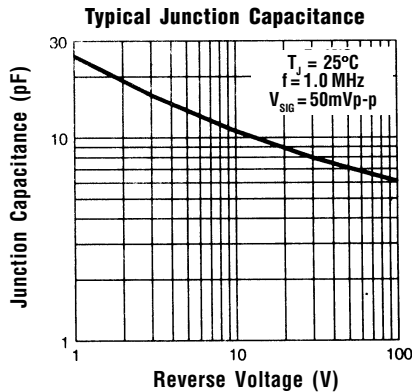
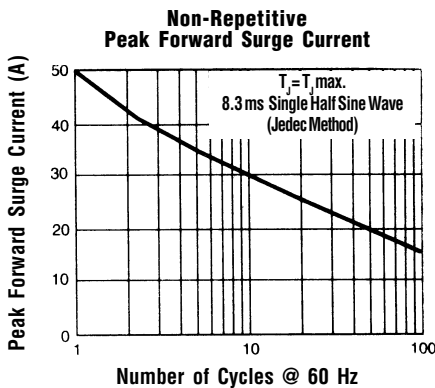
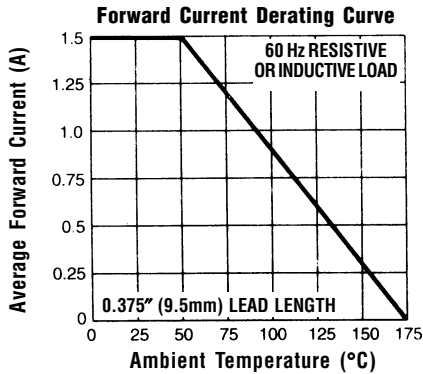
Mechanical Dimensions



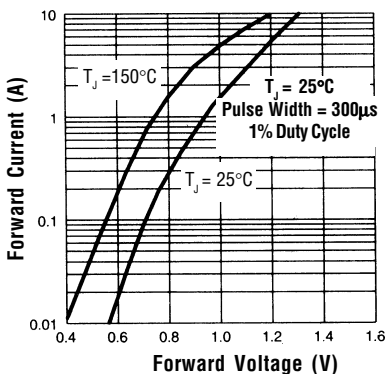
Features

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

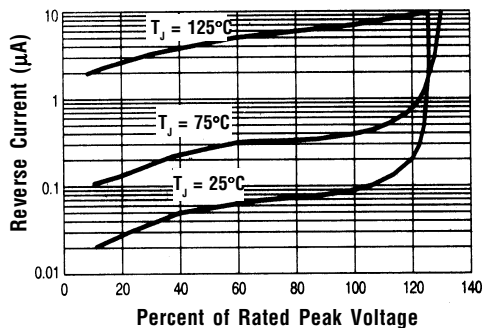
GP15A . . . 15M Series								Units
Maximum Ratings	GP15A	GP15B	GP15D	GP15G	GP15J	GP15K	GP15M	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ 3/8" Lead Length @ $T_A = 55^\circ\text{C}$				1.5				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load				50				Amps
Operating & Storage Temperature Range... T_J, T_{STRG}				-65 to 175				$^\circ\text{C}$
Electrical Characteristics								
Maximum Forward Voltage @ 1.5A... V_F				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				$T_A = 25^\circ\text{C}$				μAmps
				$T_A = 150^\circ\text{C}$				μAmps
Typical Junction Capacitance... C_J (Note 1)				15				pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)				45				$^\circ\text{C/W}$
Typical Reverse Recovery Time... t_{RR} (Note 3)				2.0				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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.