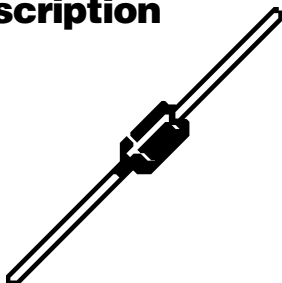
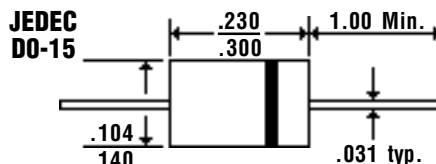


## Description



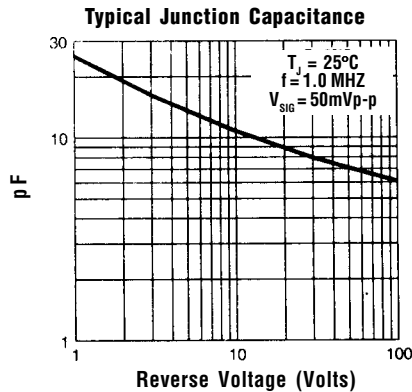
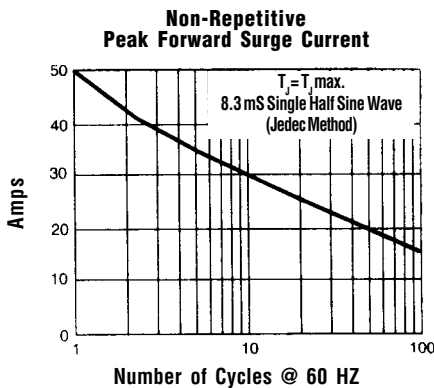
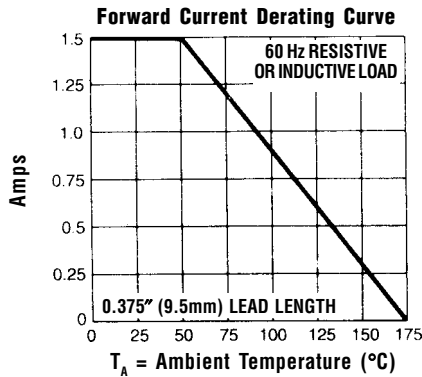
## Mechanical Dimensions



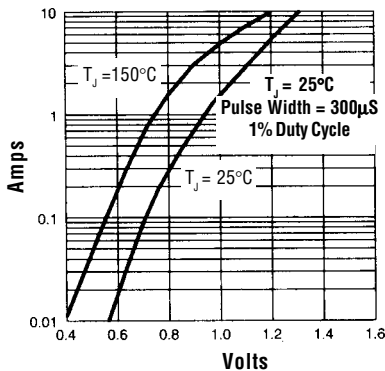
## Features

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

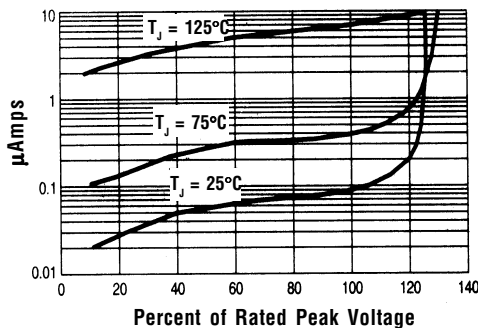
Electrical Characteristics @ 25°C.		GP15A . . . 15M Series							Units
Maximum Ratings		GP15A	GP15B	GP15D	GP15G	GP15J	GP15K	GP15M	
Peak Repetitive Reverse Voltage... $V_{RRM}$		50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$		35	70	140	280	420	560	700	Volts
DC Blocking Voltage... $V_{DC}$		50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 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
Forward Voltage @ 1.5A... $V_F$		.....			1.1	.....			Volts
Full Load Reverse Current... $I_{R(av)}$ Full Cycle Average @ $T_A = 55^\circ\text{C}$		.....			100	.....			$\mu\text{Amps}$
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	.....			5.0	.....			$\mu\text{Amps}$
	$T_A = 150^\circ\text{C}$	.....			200	.....			$\mu\text{Amps}$
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	.....			$\mu\text{S}$
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  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$ .