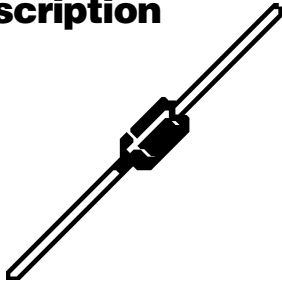
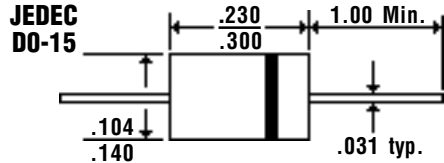


Description



Mechanical Dimensions

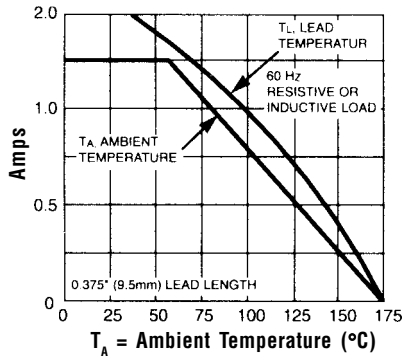


Features

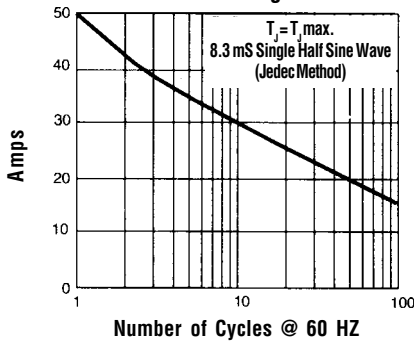
- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
 - SINTERED GLASS CAVITY-FREE JUNCTION
- CAPABILITY OF MEETING ENVIRONMENTAL STANDARDS OF MIL-S-19500

Electrical Characteristics @ 25°C.	1N5391GP . . . 99GP Series									Units
Maximum Ratings	1N5391 GP	1N5392 GP	1N5393 GP	1N5394 GP	1N5395 GP	1N5396 GP	1N5397 GP	1N5398 GP	1N5399 GP	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	210	280	350	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 75^\circ\text{C}$						1.5				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3 mS, 1/2 Sine Wave Superimposed on Rated Load						50				Amps
Forward Voltage @ 1.5A... V_F						1.4				Volts
Full Load Reverse Current... $I_{R(av)}$ Full Cycle Average @ $T_A = 70^\circ\text{C}$						300				μAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage						5				μAmps
						300				μAmps
Typical Junction Capacitance... C_J (Note 1)						15				pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)						45				°C/W
Typical Reverse Recovery Time... t_{RR} (Note 3)						2.0				μS
Operating & Storage Temperature Range... T_J, T_{STRG}						-65 to 175				°C

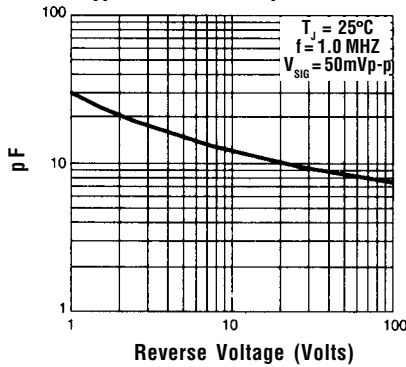
Forward Current Derating Curve



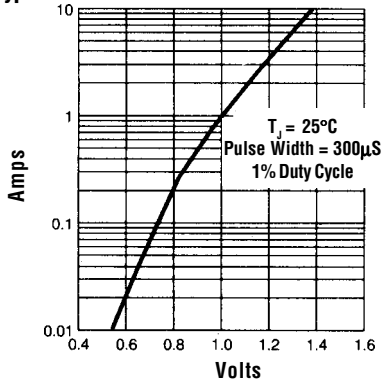
Non-Repetitive Peak Forward Surge Current



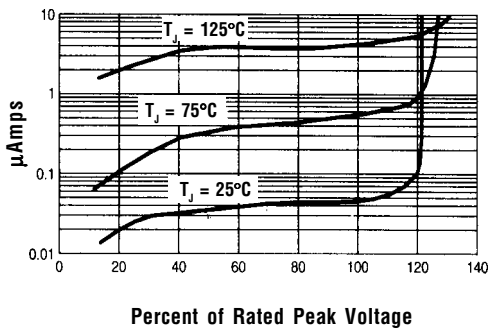
Typical Junction Capacitance



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.