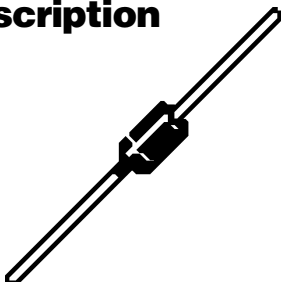
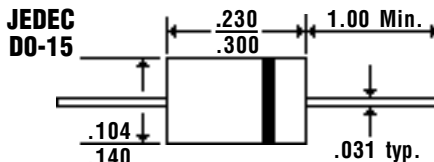


Description



Mechanical Dimensions

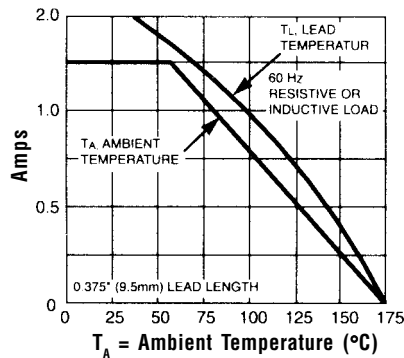


Features

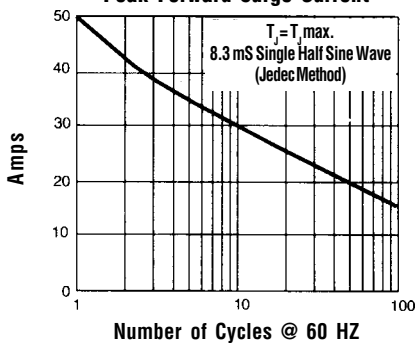
- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **CAPABILITY OF MEETING ENVIRONMENTAL STANDARDS OF MIL-S-19500**

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°C						1.5				Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3 mS, ½ 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°C						300				µAmps
DC Reverse Current...I _R @ Rated DC Blocking Voltage						5				µAmps
T _A = 25°C									µAmps	
T _A = 150°C				300						
Typical Junction Capacitance...C _J (Note 1)						15				pF
Typical Thermal Resistance...R _{θJA} (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

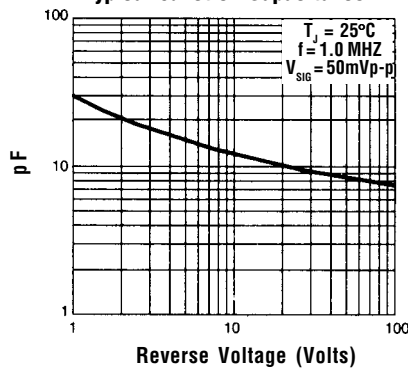
Forward Current Derating Curve



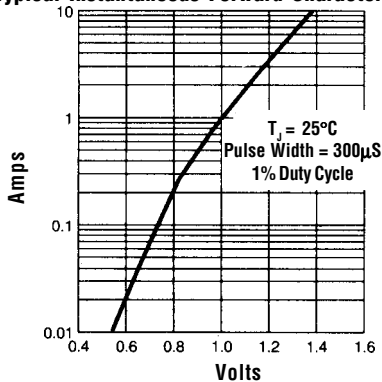
Non-Repetitive Peak Forward Surge Current



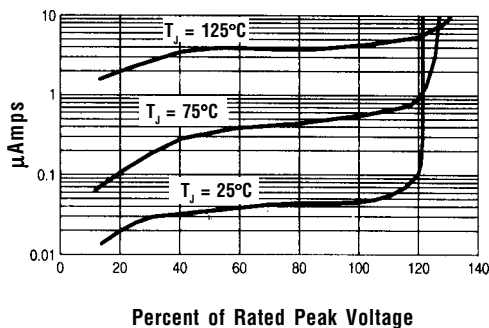
Typical Junction Capacitance



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