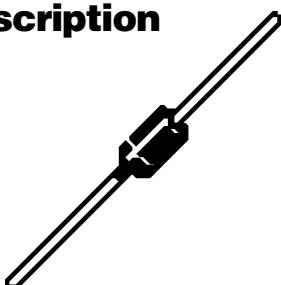
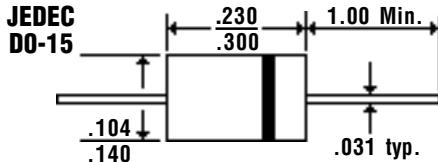


Description



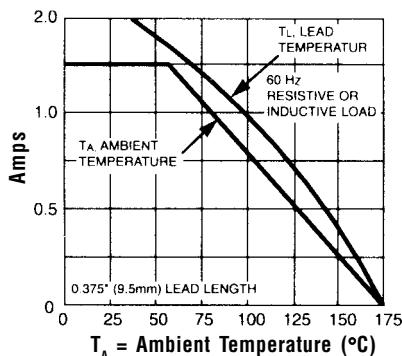
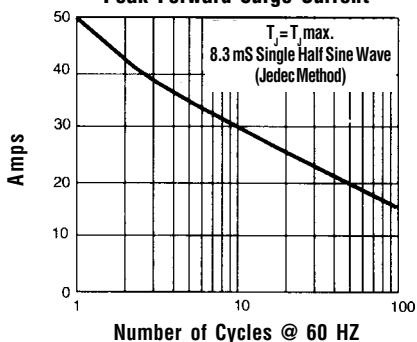
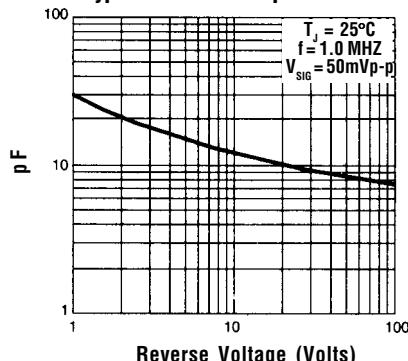
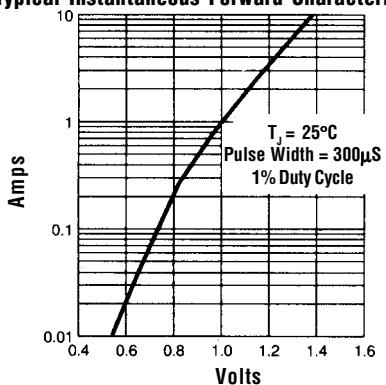
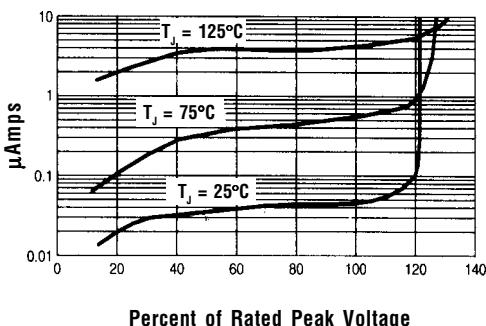
Mechanical Dimensions



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	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	
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	T _A = 25°C	.....	.....	.....	5	.....	.....	.....	.....	µAmps
	T _A = 150°C	.....	.....	.....	300	.....	.....	.....	.....	µAmps
Typical Junction Capacitance...C _j (Note 1)	.....	.....	.....	.....	15	.....	.....	.....	.....	pF
Typical Thermal Resistance...R _{QJA} (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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.