1N5391 THRU 1N5399



GENERAL PURPOSE PLASTIC SILICON RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 1.5 AMPERES

http://www.njzrg.com

FEATURES

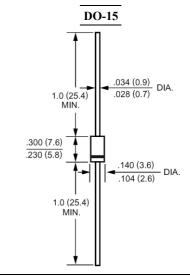
- · Low cost
- · High current capability
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O ctilizing
 Flame Retardant Epoxy Molding Compound.
- \cdot 1.5 ampere operation at T_L =70 with no thermal runaway.
- · Exceeds environmental standards of MIL-S-19500/228
- · Low leakage.

MECHANICAL DATA

Case: Molded plastic, DO-15

Terminals: Plated axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.015ounce, 0.4gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	1N5391	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A =75	I _(AV)	1.5									Amp
Peak Forward Surge Current,											
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 50								Amp	
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage at 1.5A DC and 25	$\mathbf{V_F}$	1.4									Volts
Maximum Reverse Current at T _A =25		5.0									uAmp
at Rated DC Blocking Voltage $T_A=100$	I_R		500								
Typical Junction Capacitance (Note 1)	C_{J}	20									pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50									/W
Operating Junction Temperature Range	T_{J}	-55 to +150									
Storage Temperature Range	Tstg	-55 to +150									

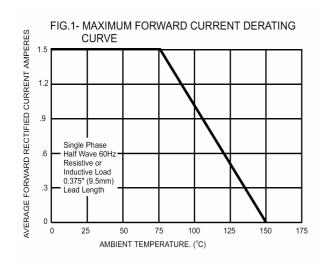
NOTES:

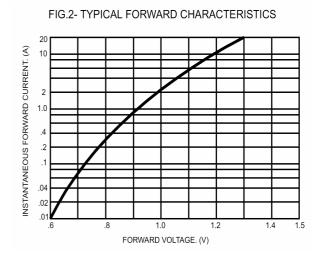
- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted.

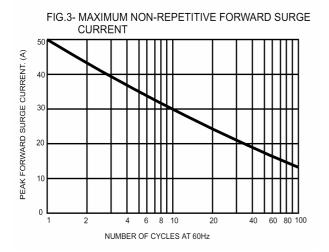


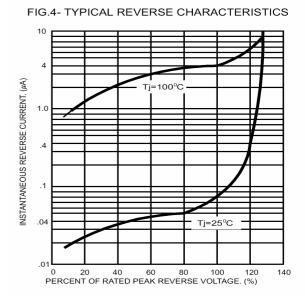
RATINGS AND CHARACTERISTIC CURVES

http://www.njzrg.com









100 60 40

FIG.5- TYPICAL JUNCTION CAPACITANCE

JUNCTION CAPACITANCE.(pF) 10

REVERSE VOLTAGE. (V)