

# 1N5391 THRU 1N5399

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### 1.5 AMP SILICON RECTIFIERS

## **FEATURES**

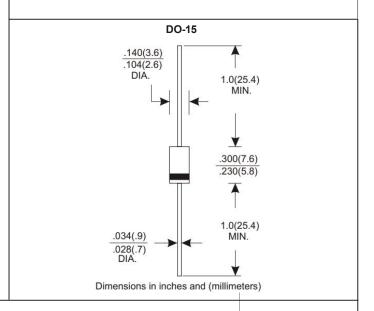
- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.40 grams

## VOLTAGE RANGE 50 to 1000 Volts CURRENT

1.5 Amperes



# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current.							1	
375"(9.5mm) Lead Length at Ta=50 C		1.5						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		501.					Α	
Maximum Instantaneous Forward Voltage at 1.5A		05.0					V	
Maximum DC Reverse Current Ta=25 C		50						įA.
at Rated DC Blocking Voltage Ta=100 C		20						
Typical Junction Capacitance (Note 1)		50						pF
Typical Thermal Resistance R JA (Note 2)								C/W
Operating and Storage Temperature Range Тл, Тsтс		-65 <u>+</u> 175						С

#### NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.



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### RATING AND CHARACTERISTIC CURVES (1N5391 THRU 1N5399)

510 / T/010 / L 500 / L 50

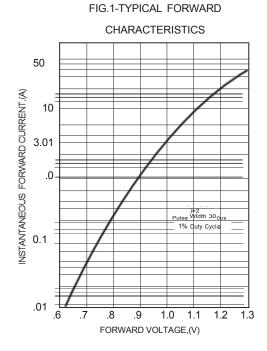
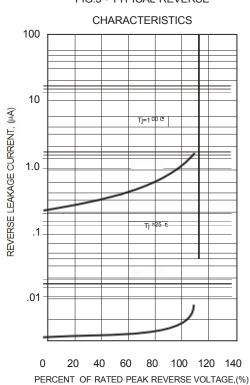


FIG.3 - TYPICAL REVERSE



#### FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

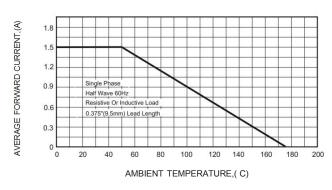


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

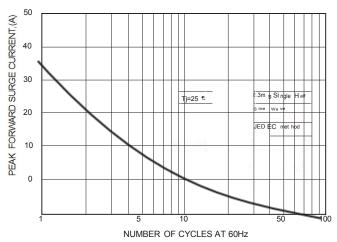


FIG.5-TYPICAL JUNCTION CAPACITANCE

