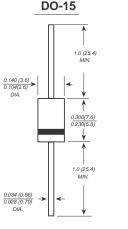


# 1N5391 THRU 1N5399

## **GENERAL PURPOSE SILICON RECTIFIER**

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5Amperes



Dimensions in inches and (millimeters)

### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.014 ounce, 0.40 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

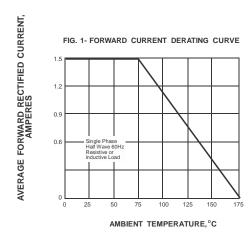
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

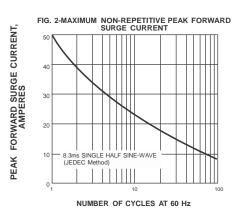
	SYMBOLS	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	210	280	350	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=75 C	l(AV)	1.5								Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	50.0								Amps	
Maximum instantaneous forward voltage at 1.5A	VF	1.4								Volts	
Maximum DC reverse current Ta=25 C at rated DC blocking voltage Ta=100 C	lR	5.0 50.0							μА		
Typical junction capacitance (NOTE 1)	Сл		20.0							pF	
Typical thermal resistance (NOTE 2)	R JA		50.0							C/W	
Operating junction and storage temperature range	Т <sub>J</sub> ,Тsтс	-65 to +175								С	

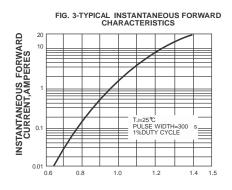
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

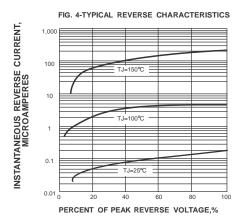
2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

## **RATINGS AND CHARACTERISTIC CURVES 1N5391 THRU 1N5399**

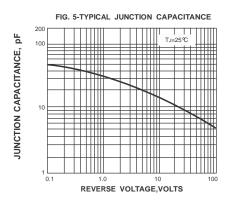


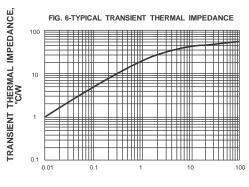












t,PULSE DURATION,sec.

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