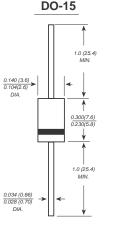


# 1N5391 THRU 1N5399

## **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.

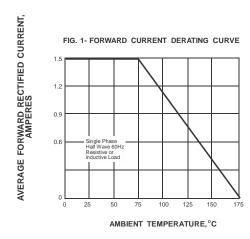
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

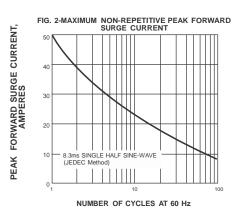
|  | SYMBOLS              | 1N<br>5391  | 1N<br>5392 | 1N<br>5393 | 1N<br>5394 | 1N<br>5395 | 1N<br>5396 | 1N<br>5397 | 1N<br>5398 | 1N<br>5399 | UNITS |
|--|----------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|
| 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<br>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          |       |

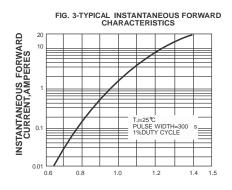
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

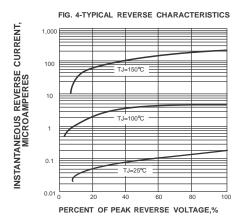
2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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

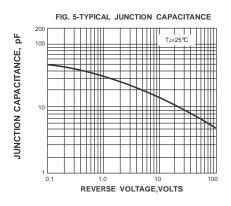


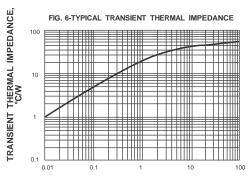












t,PULSE DURATION,sec.

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