

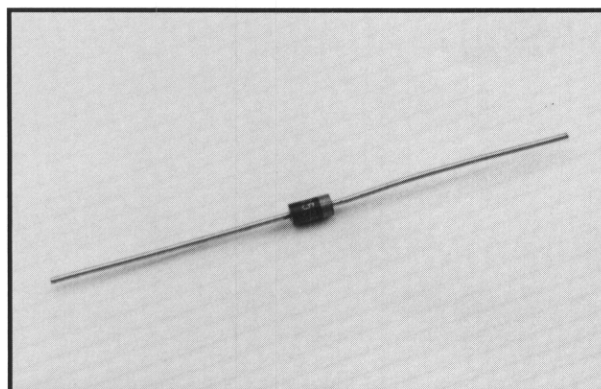
# 1N5391 Thru 1N5399



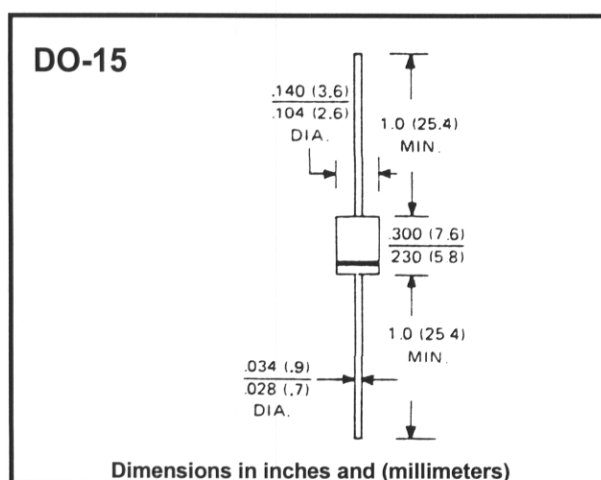
## 1.5 AMP PLASTIC SILICON RECTIFIER

### FEATURES

- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chloroethene and similar solvents
- UL recognized 94V-O plastic material



### Outline Drawing



### Mechanical Data

- Case: JEDEC DO-15
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.012 ounce, 0.3 grams
- Mounting Position: Any

### Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

		1N5391	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current, .500" (12.7mm) Lead Length @ T <sub>L</sub> = 70°C	I <sub>(AV)</sub>	1.5									A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	50									A
Maximum Forward Voltage At 1.5A DC	V <sub>F</sub>	1.1									V
Maximum DC Reverse Current @ T <sub>A</sub> = 25°C	I <sub>R</sub>	5									μA
At Rated DC Blocking Voltage @ T <sub>A</sub> = 150°C		50									
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	20									pF
Typical Thermal Resistance (Note 2)	R <sub>thJA</sub>	26									°C/W
Operating Temperature Range	T <sub>J</sub>	-65 to +175									°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +175									°C

- Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC  
2. Thermal resistance Junction to Ambient