

1N5391 Thru 1N5399



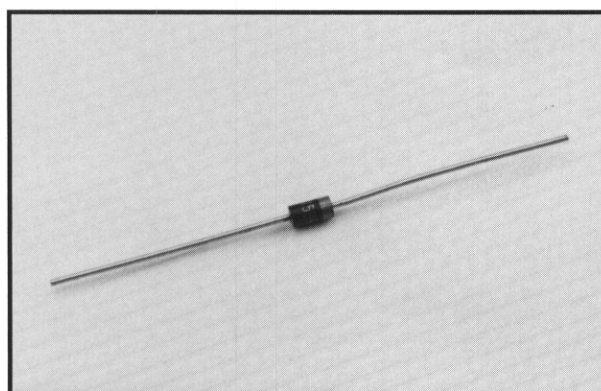
1.5 AMP PLASTIC SILICON RECTIFIER

FEATURES

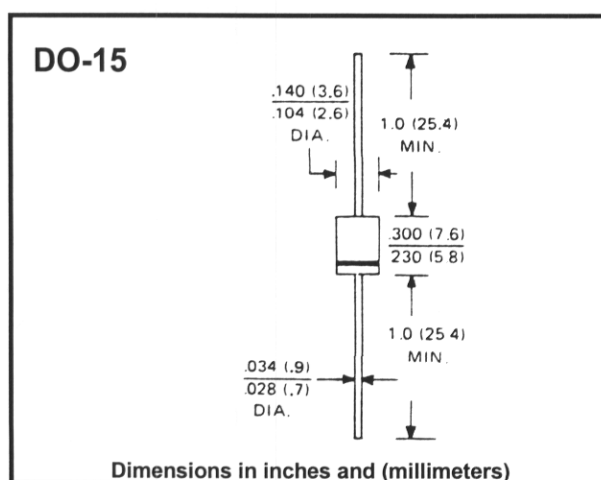
- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chloroethene and similar solvents
- UL recognized 94V-O plastic material

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



Outline Drawing



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 _{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current, .500" (12.7mm) Lead Length @ T _L = 70°C	I _{AV}	1.5									A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I _{FSM}	50									A
Maximum Forward Voltage At 1.5A DC	V _F	1.1									V
Maximum DC Reverse Current @ T _A = 25°C At Rated DC Blocking Voltage @ T _A = 150°C	I _R	5									μA
Typical Junction Capacitance (Note 1)	C _J	20									pF
Typical Thermal Resistance (Note 2)	R _{thJA}	26									°C/W
Operating Temperature Range	T _J	-65 to +175									°C
Storage Temperature Range	T _{STG}	-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