

1N5391 THRU 1N5399

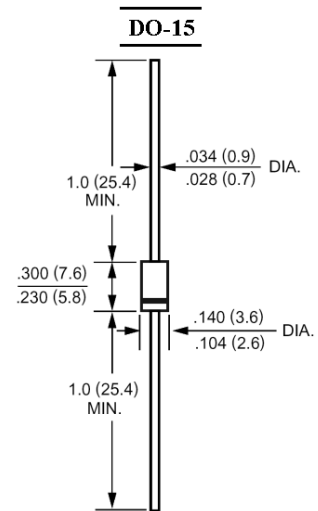
General Purpose Plastic Silicon Rectifier
Reverse Voltage – 50 to 1000 V
Forward Current – 1.5 A

Features

- High current capability
- Low leakage current
- Low cost

Mechanical Data

- Case: Molded plastic, DO-15
- Terminals: Plated axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	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 0.375" (9.5 mm) Lead Length at $T_A = 75\text{ }^\circ\text{C}$	$I_{(AV)}$	1.5									A
Peak Forward Surge Current, 8.3 ms Single Half-sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	50									A
Maximum Forward Voltage at 1.5 A DC	V_F	1.4									V
Maximum Reverse Current $T_A = 25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100\text{ }^\circ\text{C}$	I_R	5 500									μA
Typical Junction Capacitance ¹⁾	C_J	20									pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	50									$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	- 55 to + 150									$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150									$^\circ\text{C}$

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.

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

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