



ELECTRONICS, INC.
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1N5391 thru 1N5399 Axial Lead General Purpose Silicon Rectifiers, 1.5 Amp, DO-15

Features:

- 1.5 Amp Operation at $T_A = +70^\circ\text{C}$ with no Thermal Runaway
- High Current Capability
- Low Leakage

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified, Note 1)

Peak Repetitive Reverse Voltage, V_{RRM}

1N5391	50V
1N5392	100V
1N5393	200V
1N5395	400V
1N5396	500V
1N5397	600V
1N5398	800V
1N5399	1000V

Average Rectified Current (.375" Lead Length, $T_A = +75^\circ\text{C}$), I_O 1.5A

Non-Repetitive Peak Forward Surge Current (8.3ms Single Half-Sine Wave), I_{FSM} 50A

Total Device Dissipation, P_D 4.8W

Operating Junction Temperature Range, T_J -55° to $+150^\circ\text{C}$

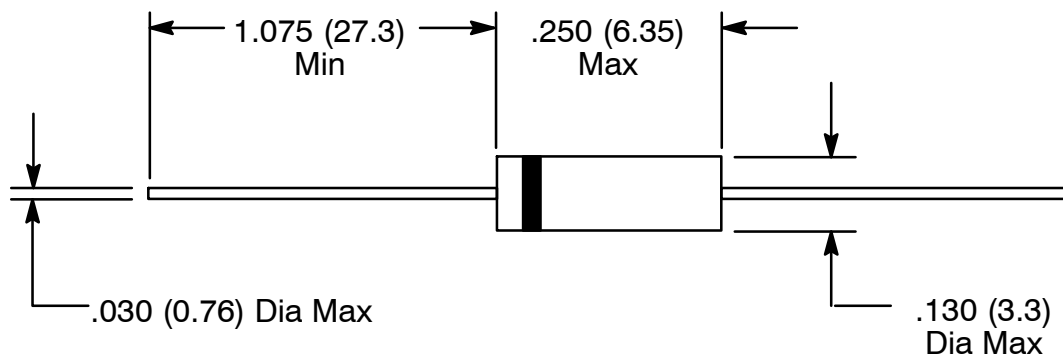
Storage Temperature Range, T_{stg} -55° to $+150^\circ\text{C}$

Thermal Resistance, Junction-to-Ambient, R_{thJA} $+26^\circ\text{C/W}$

Note 1. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Maximum Reverse Current	I_R	Rated DC Voltage	$T_A = +25^\circ\text{C}$	–	–	5.0 μA
			$T_A = +100^\circ\text{C}$	–	–	300 μA
Maximum Forward Voltage	V_F	$i_F = 1.5\text{A}$	–	–	1.4	V
Junction Capacitance		$V_R = 4\text{V}$, $f = 1\text{MHz}$	–	25	–	pF



Color Band Denotes Cathode