



ELECTRONICS, INC.  
 44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089  
<http://www.nteinc.com>

## 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,  $T_J$  .....  $-55^\circ$  to  $+150^\circ\text{C}$

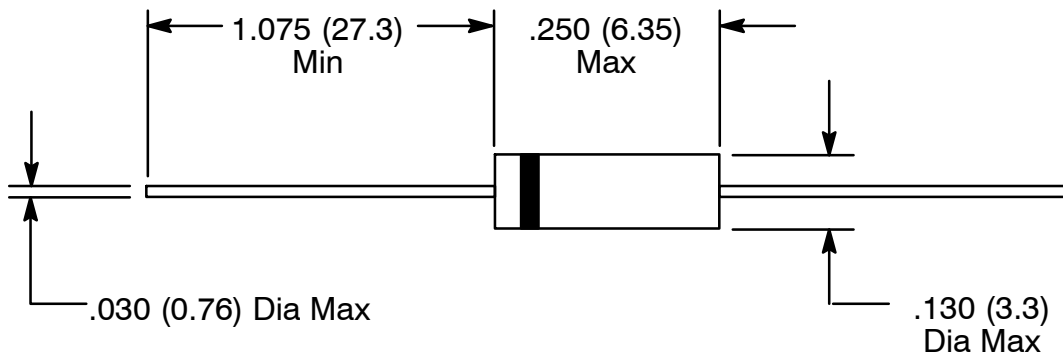
Storage Temperature Range,  $T_{stg}$  .....  $-55^\circ$  to  $+150^\circ\text{C}$

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	$\mu\text{A}$
			$T_A = +100^\circ\text{C}$	-	-	300	$\mu\text{A}$
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