

# New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.  
 SPRINGFIELD, NEW JERSEY 07081  
 U.S.A.

1N5391 ..... 1N5399

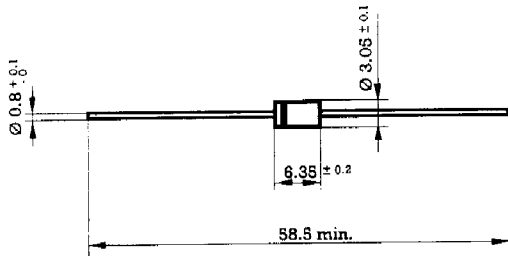
TELEPHONE: (973) 376-2922  
 (212) 227-6005  
 FAX: (973) 376-8960

Dimensions in mm.

DO-15  
 (Plastic)

Voltage  
 50 to 1000 V.

Current  
 1.5 A. at 70°C.



### Mounting instructions

1. Min. distance from body to soldering point, 4 mm.
2. Max. solder temperature, 350°C.
3. Max. soldering time, 3,5 sec.
4. Do not bend lead at a point closer than 2 mm. to the body.

- Low cost
- Diffused junction
- High current capability
- The plastic material carries U/L recognition 94 V-0
- Terminals: Axial Leads
- Polarity: Color band denotes cathode

		1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399
$V_{RRM}$	Peak recurrent reverse voltage (V)	50	100	200	300	400	500	600	800	1000
$I_{F(AV)}$	Forward current at $T_{amb} = 70^\circ\text{C}$	1.5 A								
$I_{FRM}$	Recurrent peak forward current	10 A								
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	50 A								
$T_j$	Operating temperature range	- 65 to + 150 °C								
$T_{stg}$	Storage temperature range	- 65 to + 150 °C								

### Electrical Characteristics at $T_{amb} = 25^\circ\text{C}$

$V_F$	Max. forward voltage drop at $I_F = 1.5\text{ A}$	1.2 V
$I_R$	Max. reverse current at $V_{RRM}$ at 25°C at 150°C	5 $\mu\text{A}$ 300 $\mu\text{A}$
$R_{th-a}$	Max. thermal resistance ( $l = 10\text{ mm.}$ )	60° C/W



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that data sheets are current before placing orders.