

1N5391 THRU 1N5399

SILICON RECTIFIERS  
1.5 AMP, 50 THRU 1000 VOLT



DO-15 CASE



[www.centra-semi.com](http://www.centra-semi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 1N5391 series devices are silicon rectifiers designed for general purpose rectifier applications.

**MARKING: FULL PART NUMBER**

**MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

		1N									
	SYMBOL	5391	5392	5393	5394	5395	5396	5397	5398	5399	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	V
DC Blocking Voltage	$V_R$	50	100	200	300	400	500	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	210	280	350	420	560	700	V
Average Forward Current ( $T_A=55^{\circ}\text{C}$ )	$I_O$					1.5					A
Peak Forward Surge Current ( $t_p=8.3\text{ms}$ )	$I_{FSM}$					50					A
Operating and Storage											
Junction Temperature	$T_J, T_{stg}$					-55 to +150					$^{\circ}\text{C}$
Thermal Resistance	$\theta_{JA}$					45					$^{\circ}\text{C/W}$

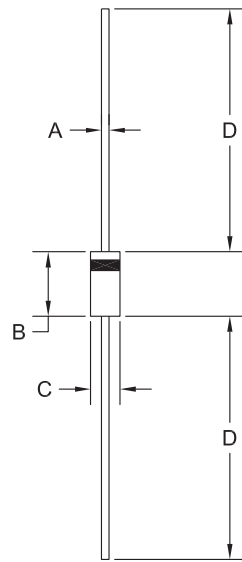
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$		1.0	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_J=100^{\circ}\text{C}$		50	$\mu\text{A}$
$V_F$	$I_F=1.5\text{A}$		1.4	V
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$	25		pF

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#### DO-15 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.034	0.71	0.86
B	0.230	0.300	5.84	7.62
C	0.104	0.140	2.64	3.56
D	1.000	-	25.40	-

DO-15 (REV: R1)

MARKING: FULL PART NUMBER

R3 (6-April 2016)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.  
145 Adams Avenue  
Hauppauge, NY 11788 USA  
Main Tel: (631) 435-1110  
Main Fax: (631) 435-1824  
Support Team Fax: (631) 435-3388  
[www.centrasemi.com](http://www.centrasemi.com)

**Worldwide Field Representatives:**  
[www.centrasemi.com/wwreps](http://www.centrasemi.com/wwreps)

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