

1N5391 THRU 1N5399

SILICON RECTIFIERS
1.5 AMP, 50 THRU 1000 VOLT



DO-15 CASE



www.centralemi.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	θ_{JA}					45					$^{\circ}\text{C/W}$

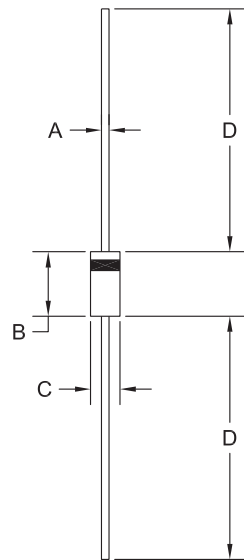
ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		1.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_J=100^{\circ}\text{C}$		50	μA
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



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

DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2nd 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

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).

CONTACT US

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