

1N5400 THRU 1N5408

SILICON RECTIFIERS  
3.0 AMP, 50 THRU 1000 VOLT



DO-201AD CASE



[www.centrasemi.com](http://www.centrasemi.com)

#### DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N5400 series types are axial lead silicon power rectifiers designed for power supply and general purpose rectifier applications.

#### MARKING: FULL PART NUMBER

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

		1N										
	SYMBOL	5400	5401	5402	5403	5404	5405	5406	5407	5408	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 ( $T_A=75^{\circ}\text{C}$ )	$I_O$					3.0					A	
Peak Forward Surge Current ( $t_p=8.3\text{ms}$ )	$I_{FSM}$					200					A	
Operating and Storage Junction Temperature	$T_J, T_{stg}$					-65 to +175					$^{\circ}\text{C}$	

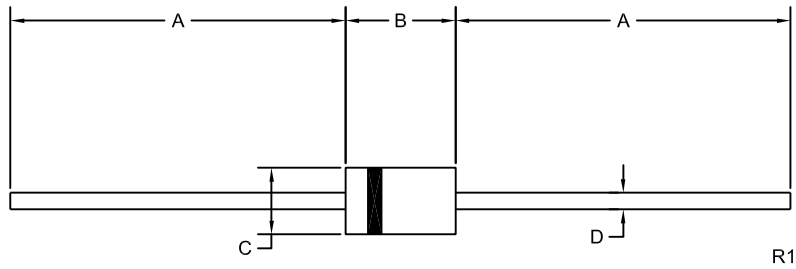
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$		5.0	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$		500	$\mu\text{A}$
$V_F$	$I_F=3.0\text{A}$		1.2	V

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DO-201AD CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.000	-	25.40	-
B	0.283	0.375	7.20	9.53
C	0.189	0.210	4.80	5.33
D	0.047	0.052	1.20	1.32

DO-201AD (REV: R1)

MARKING: FULL PART NUMBER

R1 (11-March 2013)

## 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

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