

1N4614C THRU 1N4627C

SILICON ZENER DIODE
LOW NOISE
1.8 VOLT THRU 6.2 VOLT
250mW, 2% TOLERANCE

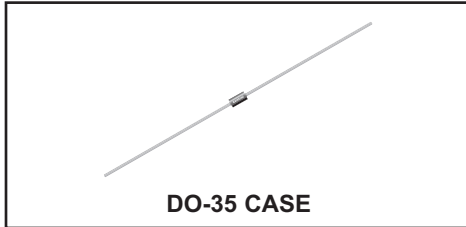


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N4614C series silicon Zener diode is designed for low leakage, low current, and low noise applications. Higher voltage devices are available in the 1N4099 series.

MARKING: FULL PART NUMBER



DO-35 CASE

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

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL

P_D

T_J, T_{stg}

250

-65 to +200

UNITS

mW

$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.0\text{V MAX @ } I_F=200\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		I_{ZM}	$N_D @ 250\mu\text{A}$
	V	V	V	μA	Ω	μA	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
1N4614C	1.764	1.8	1.836	250	1200	7.5	1.0	120	1.0
1N4615C	1.960	2.0	2.040	250	1250	5.0	1.0	110	1.0
1N4616C	2.156	2.2	2.244	250	1300	4.0	1.0	100	1.0
1N4617C	2.352	2.4	2.448	250	1400	2.0	1.0	95	1.0
1N4618C	2.646	2.7	2.754	250	1500	1.0	1.0	90	1.0
1N4619C	2.940	3.0	3.060	250	1600	0.8	1.0	85	1.0
1N4620C	3.234	3.3	3.366	250	1650	7.5	1.5	80	1.0
1N4621C	3.528	3.6	3.672	250	1700	7.5	2.0	75	1.0
1N4622C	3.822	3.9	3.978	250	1650	5.0	2.0	70	1.0
1N4623C	4.214	4.3	4.386	250	1600	4.0	2.0	65	1.0
1N4624C	4.606	4.7	4.794	250	1550	10	3.0	60	1.0
1N4625C	4.998	5.1	5.202	250	1500	10	3.0	55	2.0
1N4626C	5.488	5.6	5.712	250	1400	10	4.0	50	4.0
1N4627C	6.076	6.2	6.324	250	1200	10	5.0	45	5.0

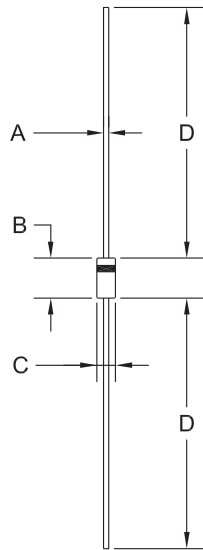
R3 (1-May 2013)

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DO-35 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.018	0.022	0.46	0.56
B	0.120	0.200	3.05	5.08
C	0.060	0.090	1.52	2.29
D	1.000	-	25.40	-

DO-35 (REV: R1)

MARKING: FULL PART NUMBER

R3 (1-May 2013)

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

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

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

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