

1N4614D THRU 1N4627D

SILICON ZENER DIODE
LOW NOISE
1.8 VOLT THRU 6.2 VOLT
250mW, 1% TOLERANCE



DO-35 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N4614D 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

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	$\mu\text{V}/\sqrt{\text{Hz}}$
1N4614D	1.782	1.8	1.818	250	1200	7.5	1.0	120	1.0
1N4615D	1.980	2.0	2.020	250	1250	5.0	1.0	110	1.0
1N4616D	2.178	2.2	2.222	250	1300	4.0	1.0	100	1.0
1N4617D	2.376	2.4	2.424	250	1400	2.0	1.0	95	1.0
1N4618D	2.673	2.7	2.727	250	1500	1.0	1.0	90	1.0
1N4619D	2.970	3.0	3.030	250	1600	0.8	1.0	85	1.0
1N4620D	3.267	3.3	3.333	250	1650	7.5	1.5	80	1.0
1N4621D	3.564	3.6	3.636	250	1700	7.5	2.0	75	1.0
1N4622D	3.861	3.9	3.939	250	1650	5.0	2.0	70	1.0
1N4623D	4.257	4.3	4.343	250	1600	4.0	2.0	65	1.0
1N4624D	4.653	4.7	4.747	250	1550	10	3.0	60	1.0
1N4625D	5.049	5.1	5.151	250	1500	10	3.0	55	2.0
1N4626D	5.544	5.6	5.656	250	1400	10	4.0	50	4.0
1N4627D	6.138	6.2	6.262	250	1200	10	5.0	45	5.0

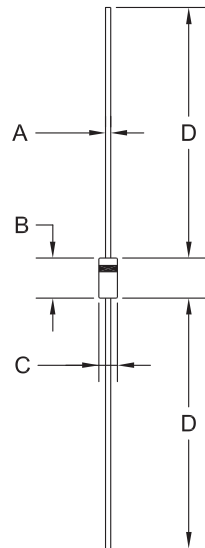
R3 (1-May 2013)

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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

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