

1N4614 THRU 1N4627

SILICON ZENER DIODE  
LOW NOISE  
1.8 VOLT THRU 6.2 VOLT  
250mW, 5% TOLERANCE



www.centrasemi.com

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 1N4614 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	$\mu\text{A}$	$\Omega$	$\mu\text{A}$	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
1N4614	1.710	1.8	1.890	250	1200	7.5	1.0	120	1.0
1N4615	1.900	2.0	2.100	250	1250	5.0	1.0	110	1.0
1N4616	2.090	2.2	2.310	250	1300	4.0	1.0	100	1.0
1N4617	2.280	2.4	2.520	250	1400	2.0	1.0	95	1.0
1N4618	2.565	2.7	2.835	250	1500	1.0	1.0	90	1.0
1N4619	2.850	3.0	3.150	250	1600	0.8	1.0	85	1.0
1N4620	3.135	3.3	3.465	250	1650	7.5	1.5	80	1.0
1N4621	3.420	3.6	3.780	250	1700	7.5	2.0	75	1.0
1N4622	3.705	3.9	4.095	250	1650	5.0	2.0	70	1.0
1N4623	4.085	4.3	4.515	250	1600	4.0	2.0	65	1.0
1N4624	4.465	4.7	4.935	250	1550	10	3.0	60	1.0
1N4625	4.845	5.1	5.355	250	1500	10	3.0	55	2.0
1N4626	5.320	5.6	5.880	250	1400	10	4.0	50	4.0
1N4627	5.890	6.2	6.510	250	1200	10	5.0	45	5.0

R3 (1-May 2013)

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DO-35 CASE - MECHANICAL OUTLINE



R1

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



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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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