

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	μA	Ω	μA	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

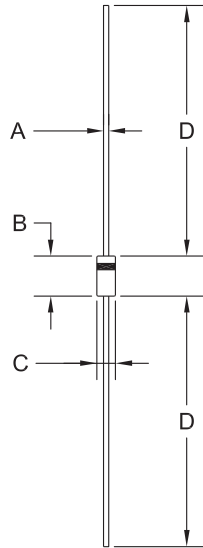
R3 (1-May 2013)

1N4614 THRU 1N4627

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



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



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

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor:

[1N4619-TR](#) [1N4621-TR](#) [1N4627-TR](#) [1N4625-TR](#) [1N4626-TR](#) [1N4624](#) [1N4619 BK](#) [1N4621](#) [1N4623](#) [1N4620](#)
[1N4628](#) [1N4618](#) [1N4624-TR](#) [1N4616-TR](#) [1N4614-TR](#) [1N4622-TR](#) [1N4620-TR](#) [1N4628-TR](#) [1N4617-TR](#) [1N4615-](#)
[TR](#) [1N4618-TR](#) [1N4623-TR](#) [1N4622](#) [1N4614](#) [1N4615](#) [1N4616](#) [1N4617](#) [1N4625](#) [1N4626](#) [1N4627](#) [1N4614 TR](#)
[1N4620 TR](#) [1N4618 TR](#) [1N4617 TR](#) [1N4627 TR](#) [1N4623 TR](#) [1N4622 BK](#) [1N4615 BK](#) [1N4616 BK](#) [1N4625 BK](#)
[1N4626 BK](#) [1N4621 TR](#) [1N4624 TR](#) [1N4615 TR](#) [1N4616 TR](#) [1N4625 TR](#) [1N4622 TR](#) [1N4619 TR](#) [1N4626 TR](#)
[1N4617 BK](#) [1N4618 BK](#) [1N4620 BK TIN/LEAD](#) [1N4616 TR TIN/LEAD](#) [1N4621 TR TIN/LEAD](#) [1N4617 BK TIN/LEAD](#)
[1N4617 TR TIN/LEAD](#) [1N4621 BK TIN/LEAD](#) [1N4625 TR TIN/LEAD](#) [1N4619 TR TIN/LEAD](#) [1N4618 TR TIN/LEAD](#)
[1N4619 BK TIN/LEAD](#) [1N4624 BK TIN/LEAD](#) [1N4616 BK TIN/LEAD](#) [1N4622 BK TIN/LEAD](#) [1N4622 TR TIN/LEAD](#)
[1N4623 TR TIN/LEAD](#) [1N4620 TR TIN/LEAD](#) [1N4626 TR TIN/LEAD](#) [1N4624 TR TIN/LEAD](#) [1N4627 BK TIN/LEAD](#)
[1N4618 BK TIN/LEAD](#) [1N4625 BK TIN/LEAD](#) [1N4615 BK TIN/LEAD](#) [1N4626 BK TIN/LEAD](#) [1N4614 BK TIN/LEAD](#)
[1N4627 TR TIN/LEAD](#) [1N4615 TR TIN/LEAD](#) [1N4623 BK TIN/LEAD](#)