

1N4614 THRU 1N4627

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

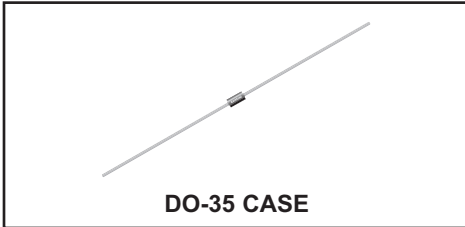


www.centrasemi.com

**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<br>$V_Z @ I_{ZT}$ |     |       | 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                            |

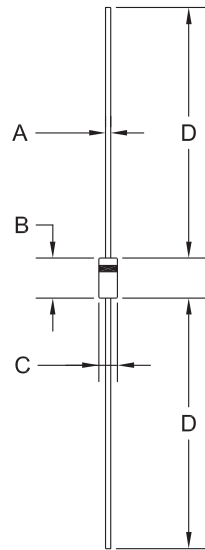
R3 (1-May 2013)

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 (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

---

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

**Worldwide Field Representatives:**  
[www.centrasemi.com/wwreps](http://www.centrasemi.com/wwreps)

**Worldwide Distributors:**  
[www.centrasemi.com/wwdistributors](http://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](http://www.centrasemi.com/terms)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Zener Diodes](#) category:*

*Click to view products by [Central Semiconductor](#) manufacturer:*

Other Similar products are found below :

[MMSZ5245BS-7-F](#) [RKZ13B2KG#P1](#) [RKZ5.6B2KJ#R1](#) [EDZTE6113B](#) [EDZTE6116B](#) [EDZTE616.8B](#) [1N747A](#) [1N966B](#) [NTE5116A](#)  
[NTE5121A](#) [NTE5139A](#) [NTE5147A](#) [NTE5152A](#) [NTE5155A](#) [NTE5156A](#) [NTE5164A](#) [JANS1N4974US](#) [SMAJ4764A-TP](#) [RKZ5.1BKU#P6](#)  
[3SMAJ5946B-TP](#) [3SMAJ5950B-TP](#) [3SMBJ5920B-TP](#) [3SMBJ5925B-TP](#) [TDZTR24](#) [441774C](#) [MMSZ4678-TP](#) [MMSZ5232BQ-13-F](#)  
[BZG04-36](#) [BZG05C9V1-HE3-TR](#) [HZM30NBTR-E](#) [UDZTE-175.1B](#) [3SMAJ5945B-TP](#) [3SMAJ5947B-TP](#) [3SMBJ5941B-TP](#) [DL4746A-TP](#)  
[RKZ18B2KK#R1](#) [RKZ10B2KL#R1](#) [RKZ6.8B2KL#R1](#) [RKZ8.2B2KL#R1](#) [DZ2S240M0L](#) [SMAZ27-TP](#) [SMBZ5920B-E3/52](#) [ZMM3.0](#)  
[RD16UM-T1-A](#) [RD39S-T1-A](#) [RD9.1S-T1-A](#) [RD10S-T1-A](#) [RD20S-T1-A](#) [RD2.2S-T1-A](#) [RD2.7UM-T1-A](#)