

1N4614 THRU 1N4627

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

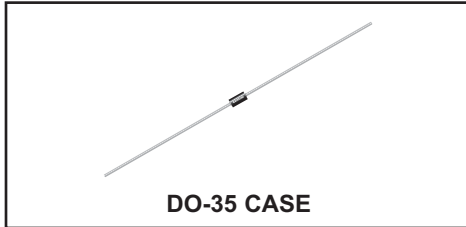


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**DESCRIPTION:**

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:** Devices shall either be marked with the prefix 'C' followed by the full part number or by the marking code in the Electrical Characteristics Table.



**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)

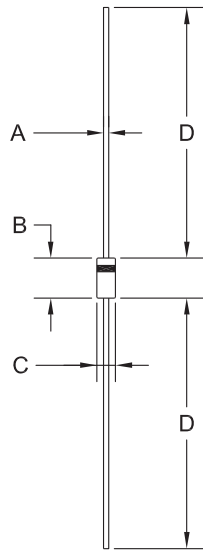
TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY	MARKING CODE
	MIN	NOM	MAX	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		$I_{ZM}$	$N_D @ 250\mu\text{A}$	
	V	V	V	$\mu\text{A}$	$\Omega$	$\mu\text{A}$	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$	
1N4614	1.710	1.8	1.890	250	1200	7.5	1.0	120	1.0	C4614
1N4615	1.900	2.0	2.100	250	1250	5.0	1.0	110	1.0	C4615
1N4616	2.090	2.2	2.310	250	1300	4.0	1.0	100	1.0	C4616
1N4617	2.280	2.4	2.520	250	1400	2.0	1.0	95	1.0	C4617
1N4618	2.565	2.7	2.835	250	1500	1.0	1.0	90	1.0	C4618
1N4619	2.850	3.0	3.150	250	1600	0.8	1.0	85	1.0	C4619
1N4620	3.135	3.3	3.465	250	1650	7.5	1.5	80	1.0	C4620
1N4621	3.420	3.6	3.780	250	1700	7.5	2.0	75	1.0	C4621
1N4622	3.705	3.9	4.095	250	1650	5.0	2.0	70	1.0	C4622
1N4623	4.085	4.3	4.515	250	1600	4.0	2.0	65	1.0	C4623
1N4624	4.465	4.7	4.935	250	1550	10	3.0	60	1.0	C4624
1N4625	4.845	5.1	5.355	250	1500	10	3.0	55	2.0	C4625
1N4626	5.320	5.6	5.880	250	1400	10	4.0	50	4.0	C4626
1N4627	5.890	6.2	6.510	250	1200	10	5.0	45	5.0	C4627

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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)

R4 (6-December 2019)

## 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

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