

1N3506C THRU 1N3534C  
**SILICON ZENER DIODES**  
**LOW LEAKAGE**  
**400mW, 3.3 THRU 47 VOLT**  
**2% TOLERANCE**

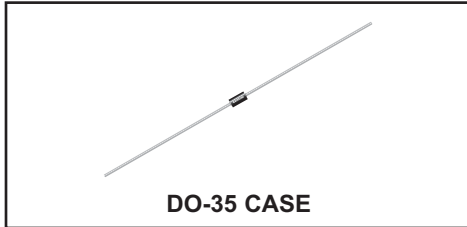


[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 1N3506C series silicon Zener diode is a high quality voltage regulator designed for use in industrial, commercial, entertainment, and computer applications.

**MARKING: FULL PART NUMBER**



**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Power Dissipation  
 Operating and Storage Junction Temperature

**SYMBOL**

$P_D$   
 $T_J, T_{stg}$

**UNITS**

400  
 -65 to +200  
 mW  
 $^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$ )  $V_F=1.1\text{V MAX @ } I_F=200\text{mA}$  (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM REVERSE CURRENT		MAXIMUM ZENER IMPEDANCE
	MIN	NOM	MAX	$I_{ZT}$	$I_R$	@ $V_R$	$Z_{ZT} @ I_{ZT}$
	V	V	V	mA	$\mu\text{A}$	V	$\Omega$
1N3506C	3.234	3.3	3.366	20	4.0	1.0	24
1N3507C	3.528	3.6	3.672	20	2.0	1.0	22
1N3508C	3.822	3.9	3.978	20	0.4	1.0	20
1N3509C	4.214	4.3	4.386	20	0.1	1.0	18
1N3510C	4.606	4.7	4.794	20	5.0	2.0	16
1N3511C	4.998	5.1	5.202	20	2.0	2.0	14
1N3512C	5.488	5.6	5.712	20	5.0	3.0	8.0
1N3513C	6.076	6.2	6.324	20	5.0	4.0	3.0
1N3514C	6.664	6.8	6.936	20	1.0	5.0	3.0
1N3515C	7.350	7.5	7.650	10	0.5	6.0	4.0
1N3516C	8.036	8.2	8.364	10	0.25	7.0	5.0
1N3517C	8.918	9.1	9.282	10	0.025	7.0	6.0
1N3518C	9.80	10	10.20	10	0.01	8.0	7.0
1N3519C	10.78	11	11.22	10	0.01	9.0	8.0
1N3520C	11.76	12	12.24	10	0.01	10	10
1N3521C	12.74	13	13.26	5.0	0.01	11	12
1N3522C	14.70	15	15.30	5.0	0.01	13	14

R0 (15-April 2015)

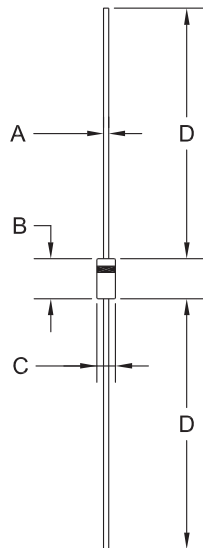
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ELECTRICAL CHARACTERISTICS - Continued: ( $T_A=25^\circ\text{C}$ )  $V_F=1.1\text{V MAX @ } I_F=200\text{mA}$  (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM REVERSE CURRENT		MAXIMUM ZENER IMPEDANCE
	MIN	NOM	MAX	$I_{ZT}$	$I_R$	@ $V_R$	$Z_{ZT} @ I_{ZT}$
	V	V	V	mA	$\mu\text{A}$	V	$\Omega$
1N3523C	15.68	16	16.32	5.0	0.01	14	16
1N3524C	17.64	18	18.36	5.0	0.01	16	18
1N3525C	19.60	20	20.40	5.0	0.01	18	20
1N3526C	21.56	22	22.44	5.0	0.01	19	35
1N3527C	23.52	24	24.48	5.0	0.01	20	38
1N3528C	26.46	27	27.54	4.0	0.01	22	40
1N3529C	29.40	30	30.60	4.0	0.01	24	48
1N3530C	32.34	33	33.66	3.0	0.01	26	50
1N3531C	35.28	36	36.72	3.0	0.01	28	75
1N3532C	38.22	39	39.78	3.0	0.01	30	80
1N3533C	42.14	43	43.86	2.0	0.01	35	130
1N3534C	46.06	47	47.94	2.0	0.01	38	150

DO-35 CASE - MECHANICAL OUTLINE



R1

SYMBOL	DIMENSIONS			
	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

R0 (15-April 2015)

## 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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