

1N746C THRU 1N759C

SILICON ZENER DIODES  
500mW, 3.3 THRU 12 VOLT  
2% TOLERANCE

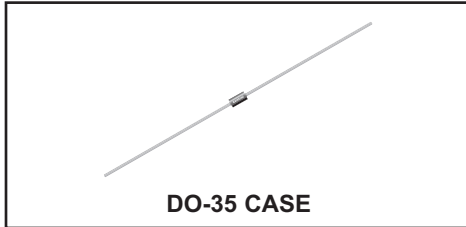


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**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 1N746C series silicon Zener diode is a highly reliable voltage regulator designed for use in industrial, commercial, entertainment and computer applications.

**MARKING: FULL PART NUMBER**



DO-35 CASE

**MAXIMUM RATINGS:** ( $T_L=75^\circ\text{C}$ )

Power Dissipation  
Operating and Storage Junction Temperature

**SYMBOL**

$P_D$   
 $T_J, T_{stg}$

**UNITS**

500  
-65 to +200  
mW  
 $^\circ\text{C}$

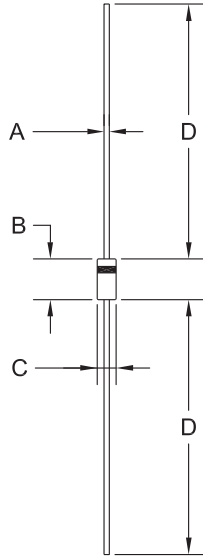
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$ )  $V_F=1.5\text{V MAX @ } I_F=200\text{mA}$  (for all types)

Type	Zener Voltage $V_Z @ I_{ZT}$			Test Current	Maximum Zener Impedance	Maximum Reverse Leakage Current		Maximum Reverse Leakage Current @ $T_A=150^\circ\text{C}$		Maximum Regulator Current
	MIN	NOM	MAX	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		$I_R @ V_R$		$I_{ZM}$
	V	V	V	mA	$\Omega$	$\mu\text{A}$	V	$\mu\text{A}$	V	mA
1N746C	3.234	3.3	3.366	20	28	10	1.0	30	1.0	110
1N747C	3.528	3.6	3.672	20	24	10	1.0	30	1.0	100
1N748C	3.822	3.9	3.978	20	23	10	1.0	30	1.0	95
1N749C	4.214	4.3	4.386	20	22	2.0	1.0	30	1.0	85
1N750C	4.606	4.7	4.794	20	19	2.0	1.0	30	1.0	75
1N751C	4.998	5.1	5.202	20	17	1.0	1.0	20	1.0	70
1N752C	5.488	5.6	5.712	20	11	1.0	1.0	20	1.0	65
1N753C	6.076	6.2	6.324	20	7.0	0.1	1.0	20	1.0	60
1N754C	6.664	6.8	6.936	20	5.0	0.1	1.0	20	1.0	55
1N755C	7.350	7.5	7.650	20	6.0	0.1	1.0	20	1.0	50
1N756C	8.036	8.2	8.364	20	8.0	0.1	1.0	20	1.0	45
1N757C	8.918	9.1	9.282	20	10	0.1	1.0	20	1.0	40
1N758C	9.80	10	10.20	20	17	0.1	1.0	20	1.0	35
1N759C	11.76	12	12.24	20	30	0.1	1.0	20	1.0	30

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DO-35 CASE - MECHANICAL OUTLINE



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

R1

R1 (17-December 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

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