

**1N746A THRU 1N759A**  
**SILICON ZENER DIODES**  
**500mW, 3.3 THRU 12 VOLT**  
**5% TOLERANCE**

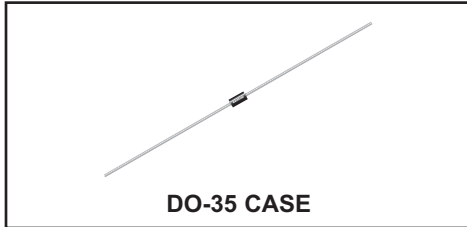


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**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 1N746A series silicon Zener diode is a highly reliable voltage regulator designed for use in industrial, commercial, entertainment and computer applications.

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

Power Dissipation  
 Operating and Storage Junction Temperature

**SYMBOL**

$P_D$   
 $T_J, T_{stg}$

**UNITS**

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)

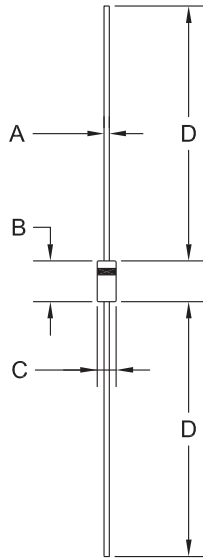
Type	Zener Voltage $V_Z @ I_{ZT}$			Test Current $I_{ZT}$	Maximum Zener Impedance $Z_{ZT} @ I_{ZT}$	Maximum Reverse Leakage Current		Maximum Reverse Leakage Current @ $T_A=150^\circ\text{C}$		Maximum Regulator Current $I_{ZM}$	Marking Code
	MIN	NOM	MAX			$I_R @ V_R$		$I_R @ V_R$			
	V	V	V			$\mu\text{A}$	V	$\mu\text{A}$	V		
1N746A	3.135	3.3	3.465	20	28	10	1.0	30	1.0	110	C746A
1N747A	3.420	3.6	3.780	20	24	10	1.0	30	1.0	100	C747A
1N748A	3.705	3.9	4.095	20	23	10	1.0	30	1.0	95	C748A
1N749A	4.085	4.3	4.515	20	22	2.0	1.0	30	1.0	85	C749A
1N750A	4.465	4.7	4.935	20	19	2.0	1.0	30	1.0	75	C750A
1N751A	4.845	5.1	5.355	20	17	1.0	1.0	20	1.0	70	C751A
1N752A	5.320	5.6	5.880	20	11	1.0	1.0	20	1.0	65	C752A
1N753A	5.890	6.2	6.510	20	7.0	0.1	1.0	20	1.0	60	C753A
1N754A	6.460	6.8	7.140	20	5.0	0.1	1.0	20	1.0	55	C754A
1N755A	7.125	7.5	7.875	20	6.0	0.1	1.0	20	1.0	50	C755A
1N756A	7.790	8.2	8.610	20	8.0	0.1	1.0	20	1.0	45	C756A
1N757A	8.645	9.1	9.555	20	10	0.1	1.0	20	1.0	40	C757A
1N758A	9.50	10	10.50	20	17	0.1	1.0	20	1.0	35	C758A
1N759A	11.40	12	12.60	20	30	0.1	1.0	20	1.0	30	C759A

R2 (6-December 2019)

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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)

R1

R2 (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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