

1N746D THRU 1N759D

SILICON ZENER DIODES
500mW, 3.3 THRU 12 VOLT
1% TOLERANCE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N746D 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
 $^\circ\text{C}$

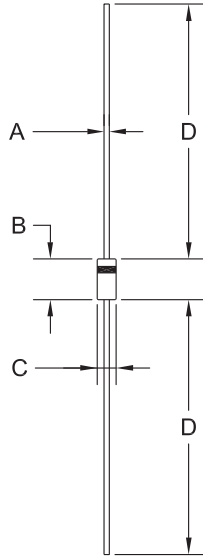
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.5\text{V MAX @ } I_F=200\text{mA}$ (for all types)

Type	Zener Voltage $V_Z @ I_{ZT}$			Test Current 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}
	MIN	NOM	MAX			$I_R @ V_R$		$I_R @ V_R$		
	V	V	V			μA	V	μA	V	
1N746D	3.267	3.3	3.333	20	28	10	1.0	30	1.0	110
1N747D	3.564	3.6	3.636	20	24	10	1.0	30	1.0	100
1N748D	3.861	3.9	3.939	20	23	10	1.0	30	1.0	95
1N749D	4.257	4.3	4.343	20	22	2.0	1.0	30	1.0	85
1N750D	4.653	4.7	4.747	20	19	2.0	1.0	30	1.0	75
1N751D	5.049	5.1	5.151	20	17	1.0	1.0	20	1.0	70
1N752D	5.544	5.6	5.656	20	11	1.0	1.0	20	1.0	65
1N753D	6.138	6.2	6.262	20	7.0	0.1	1.0	20	1.0	60
1N754D	6.732	6.8	6.868	20	5.0	0.1	1.0	20	1.0	55
1N755D	7.425	7.5	7.575	20	6.0	0.1	1.0	20	1.0	50
1N756D	8.118	8.2	8.282	20	8.0	0.1	1.0	20	1.0	45
1N757D	9.009	9.1	9.191	20	10	0.1	1.0	20	1.0	40
1N758D	9.90	10	10.10	20	17	0.1	1.0	20	1.0	35
1N759D	11.88	12	12.12	20	30	0.1	1.0	20	1.0	30

1N746D THRU 1N759D
 SILICON ZENER DIODES
 500mW, 3.3 THRU 12 VOLT
 1% TOLERANCE



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



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 (2nd 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

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
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