

1N746A THRU 1N759A

SILICON ZENER DIODES
500mW, 3.3 THRU 12 VOLT
5% TOLERANCE



DO-35 CASE



www.centrasemi.com

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: FULL PART NUMBER

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

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL

P_D

T_J, T_{stg}

500

-65 to +200

UNITS

mW

$^\circ\text{C}$

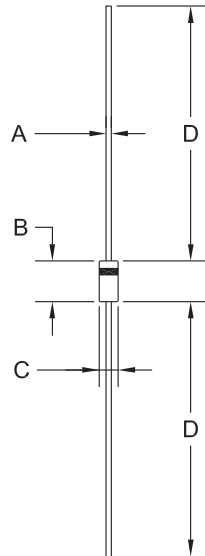
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.5\text{V MAX @ } I_F=200\text{mA}$ (for all types)

Type	Zener Voltage $V_Z @ I_{ZT}$			Test Current	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	Ω	μA	V	μA	V	mA
1N746A	3.135	3.3	3.465	20	28	10	1.0	30	1.0	110
1N747A	3.420	3.6	3.780	20	24	10	1.0	30	1.0	100
1N748A	3.705	3.9	4.095	20	23	10	1.0	30	1.0	95
1N749A	4.085	4.3	4.515	20	22	2.0	1.0	30	1.0	85
1N750A	4.465	4.7	4.935	20	19	2.0	1.0	30	1.0	75
1N751A	4.845	5.1	5.355	20	17	1.0	1.0	20	1.0	70
1N752A	5.320	5.6	5.880	20	11	1.0	1.0	20	1.0	65
1N753A	5.890	6.2	6.510	20	7.0	0.1	1.0	20	1.0	60
1N754A	6.460	6.8	7.140	20	5.0	0.1	1.0	20	1.0	55
1N755A	7.125	7.5	7.875	20	6.0	0.1	1.0	20	1.0	50
1N756A	7.790	8.2	8.610	20	8.0	0.1	1.0	20	1.0	45
1N757A	8.645	9.1	9.555	20	10	0.1	1.0	20	1.0	40
1N758A	9.50	10	10.50	20	17	0.1	1.0	20	1.0	35
1N759A	11.40	12	12.60	20	30	0.1	1.0	20	1.0	30

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



DO-35 CASE - MECHANICAL OUTLINE



DIMENSIONS				
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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor:

[1N753A TR \(10K TAPE & REEL\)](#) [1N757A TR](#) [1N757A](#) [1N750A](#) [1N748A](#) [1N754A](#) [1N747A](#) [1N756A](#) [1N749A](#)
[1N755A](#) [1N753A](#) [1N759A](#) [1N746A](#) [1N751A](#) [1N752A](#) [1N758A](#) [1N751A TR](#) [1N750A TR](#) [1N749A TR](#) [1N752A TR](#)
[1N756A TR](#) [1N753A TR](#) [1N759A TR](#) [1N757A BK](#) [1N758A TR](#) [1N746A TR](#) [1N748A BK](#) [1N748A TR](#) [1N759A BK](#)
[1N750A BK](#) [1N756A BK](#) [1N753A BK](#) [1N751A BK](#) [1N747A BK](#) [1N755A BK](#) [1N747A TR](#) [1N752A BK](#) [1N754A TR](#)
[1N746A BK](#) [1N754A BK](#) [1N749A BK](#)