

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N746A THRU 1N759A

500 mW ZENER DIODE  
3.3 VOLTS to 12 VOLTS  
5% TOLERANCE

JEDEC DO-35 CASE

## DESCRIPTION

The Central Semiconductor 1N746A Series Silicon Zener Diode is a high quality voltage regulator for use in industrial, commercial, entertainment and computer applications.

### ABSOLUTE MAXIMUM RATINGS

Power Dissipation (@  $T_L = 75^\circ\text{C}$ )  
Operating and Storage Temperature  
Tolerance "A Suffix"  
Tolerance "C Suffix"  
Tolerance "D Suffix"

### SYMBOL

PD 500  
T<sub>J</sub>, T<sub>STG</sub> -65 to +200  
±5  
±2  
±1

### UNIT

mW  
°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 Zener Current $I_{ZM}$
				$I_R @ V_R$		$I_R @ V_R$ $T_A = 150^\circ\text{C}$		
				$\mu\text{A}$	Volts	$\mu\text{A}$	Volts	
1N746A	3.3	20	28	10	1.0	30	1.0	110
1N747A	3.6	20	24	10	1.0	30	1.0	100
1N748A	3.9	20	23	10	1.0	30	1.0	95
1N749A	4.3	20	22	2.0	1.0	30	1.0	85
1N750A	4.7	20	19	2.0	1.0	30	1.0	75
1N751A	5.1	20	17	1.0	1.0	20	1.0	70
1N752A	5.6	20	11	1.0	1.0	20	1.0	65
1N753A	6.2	20	7.0	0.1	1.0	20	1.0	60
1N754A	6.8	20	5.0	0.1	1.0	20	1.0	55
1N755A	7.5	20	6.0	0.1	1.0	20	1.0	50
1N756A	8.2	20	8.0	0.1	1.0	20	1.0	45
1N757A	9.1	20	10	0.1	1.0	20	1.0	40
1N758A	10	20	17	0.1	1.0	20	1.0	35
1N759A	12	20	30	0.1	1.0	20	1.0	30