

Zeners 1N746A - 1N759A

Zeners (1N746A - 1N759A)

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
T _{STG}	Storage Temperature Range	-65 to +200	°C
T _J	Operating Junction Temperature	+ 175	°C
	Lead Temperature (1/16" from case for 10 seconds)	+ 230	°C

Tolerance: A = 5%



DO-35

COLOR BAND DENOTES CATHODE

*These ratings are limiting values above which the serviceability of the diode may be impaired.

NOTES:

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Electrical Characteristics T_A = 25°C unless otherwise noted

Device	V _Z (V)	Z _Z (Ω) @ I _Z (mA)	I _{R1} (μA) @ V _R (V)	I _{R2} (μA) @ V _R (V) @ T _A =150°C	T _C (%/°C)	I _{ZRM} * (mA)
1N746A	3.3	28 20	10 1.0	30 1.0	- 0.070	110
1N747A	3.6	24 20	10 1.0	30 1.0	- 0.065	100
1N748A	3.9	23 20	10 1.0	30 1.0	- 0.060	95
1N749A	4.3	22 20	2.0 1.0	30 1.0	+/- 0.055	85
1N750A	4.7	19 20	2.0 1.0	30 1.0	+/- 0.030	75
1N751A	5.1	17 20	1.0 1.0	20 1.0	+/- 0.030	70
1N752A	5.6	11 20	1.0 1.0	20 1.0	+ 0.038	65
1N753A	6.2	7.0 20	0.1 1.0	20 1.0	+ 0.045	60
1N754A	6.8	5.0 20	0.1 1.0	20 1.0	+ 0.050	55
1N755A	7.5	6.0 20	0.1 1.0	20 1.0	+ 0.058	50
1N756A	8.2	8.0 20	0.1 1.0	20 1.0	+ 0.062	45
1N757A	9.1	10 20	0.1 1.0	20 1.0	+ 0.068	40
1N758A	10	17 20	0.1 1.0	20 1.0	+ 0.075	35
1N759A	12	30 20	0.1 1.0	20 1.0	+ 0.077	38

*I_{ZRM} (Maximum Zener Current Rating) Values shown are based on the JEDEC rating of 400 milliwatts. Where the actual zener voltage (V_Z) is known at the operating point, the maximum zener current may be increased and is limited by the derating curve.