

1N746A - 1N759A

V_Z : 3.3 to 12V

P_D : 500mW

FEATURES :

- Silicon planar power zener diodes.
- Standard zener voltage tolerance is $\pm 5\%$
- Other tolerances are available upon request.
- Pb / RoHS Free

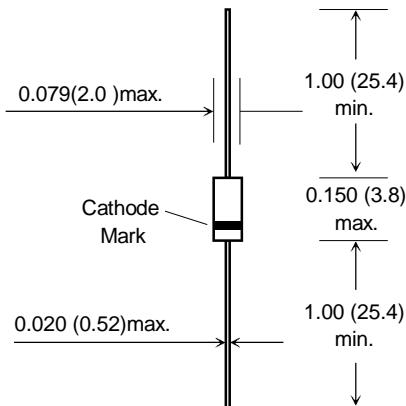
MECHANICAL DATA :

Case: DO-35 Glass Case

Weight: approx. 0.13g

ZENER DIODES

DO - 35 Glass (DO-204AH)



Dimensions in inches and (millimeters)

Maximum Ratings and Thermal Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Maximum Forward Voltage at I _F = 200 mA.	V _F	1.2	V
Power Dissipation at T _L = 75°C	P _D	500 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	300 ⁽²⁾	°C/W
Junction temperature	T _J	175	°C
Storage temperature range	T _S	-65 to + 150	°C

Notes:

(1) T_L is measured 3/8" from body.

(2) Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.



Certificate Number: Q10561

Certificate Number: E17276

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Type	Nominal Zener Voltage V_z @ I_{ZT}	Test Current I_{ZT}	Maximum Zener Impedance Z_{ZT} @ I_{ZT} ⁽¹⁾	Maximum Reverse Leakage Current I_R ⁽²⁾ @ $V_R=1V$		Maximum DC Zener Current I_{ZM}
				$T_a=25^{\circ}C$	$T_a=150^{\circ}C$	
	(V)	(mA)	(Ω)	(μA)	(μA)	(mA)
1N746A	3.3	20	28	10	30	110
1N747A	3.6	20	24	10	30	100
1N748A	3.9	20	23	10	30	95
1N749A	4.3	20	22	2	30	85
1N750A	4.7	20	19	2	30	75
1N751A	5.1	20	17	1	20	70
1N752A	5.6	20	11	1	20	65
1N753A	6.2	20	7	0.1	20	60
1N754A	6.8	20	5	0.1	20	55
1N755A	7.5	20	6	0.1	20	50
1N756A	8.2	20	8	0.1	20	45
1N757A	9.1	20	10	0.1	20	40
1N758A	10	20	17	0.1	20	35
1N759A	12	20	30	0.1	20	30

Notes :

(1) The Zener impedance is derived from the 1 kHz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT}) is superimposed on I_{ZT} . Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

(2) Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

(3) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5.0\%$.