

V₇ Range 3.3 to 12 Volts

Zener Diodes Power Dissipation 500mW

Features

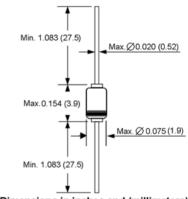
- ◆ Silicon Planar Power Zener Diodes.
- ◆ Standard Zener voltage tolerance is ±5% for "A" suffix. Other tolerances are available upon request.



DO-204AH (DO-35 Glass)

Mechanical Data

◆ Case: DO-35 Glass Case◆ Weight: approx. 0.13 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Thermal Characteristics

(T_x=25°C unless otherwise noted)

(A							
Parameter	Symbol	Value	Unit				
Zener current (see Table "Characteristics")							
Power dissipation at T _L =75°C	P _{tot}	500 (1)	mW				
Thermal resistance junction to ambient air	R _{eJA}	300 (2)	°C/W				
Maximum junction temperature	T _j	175	°C				
Storage temperature range	T _s	-65 to +175	°C				

Notes: 1. T, is measured 3/8" from body.

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

Electrical Characteristics

(T_,=25°C unless otherwise noted) Maximum V_c=1.5V at I_c=200mA

	Nominal zener voltage		Maximum zener impedance		Maximum reverse leakage current	
Type number	V _z @ I _{zr} (Volts)	Test current I _{zr} (mA)	$\mathbf{Z}_{zr} \otimes \mathbf{I}_{zr}^{(1)}$	Maximum regulator current I _{zm} (2) (mA)	T _A =25°C I _R @ V _R = 1V (uA)	T _A =150°C I _R @ V _R = 1V (uA)
1N746A	3.3	20	28	110	10	30
1N747A	3.6	20	24	100	10	30
1N748A	3.9	20	23	95	10	30
1N749A	4.3	20	22	85	2	30
1N750A	4.7	20	19	75	2	30
1N751A	5.1	20	17	70	1	20
1N752A	5.6	20	11	65	1	20
1N753A	6.2	20	7	60	0.1	20
1N754A	6.8	20	5	55	0.1	20
1N755A	7.5	20	6	50	0.1	20
1N756A	8.2	20	8	45	0.1	20
1N757A	9.1	20	10	40	0.1	20
1N758A	10	20	17	35	0.1	20
1N759A	12	20	30	30	0.1	20

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 (I₂₇) is superimposed on I₂₇. 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.} Measured with device junction in thermal equilibrium.