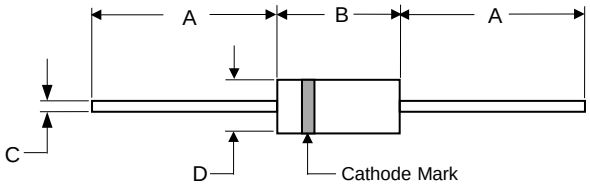
1N746 THRU 1N759

Silicon Planar Zener Diodes

Features

* Standard Zener voltage tolerance is ± 10%.
* Add suffix "A" for ± 5% tolerance.
* Other tolerances, non-standard and higher Zener voltages are upon request.



RoHS COMPLIANT

DO-35				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.083	---	27.50	---
B	---	0.154	---	3.90
C	---	0.020	---	0.50
D	---	0.075	---	1.90

Maximum Ratings (TA=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500[1)]	mW
Junction Temperature	T_j	175	℃
Storage Temperature Range	T_{stg}	- 65 to + 175	℃

Note:

1) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Characteristics (TA=25℃ unless otherwise noted)

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	0.3 [1)]	K/mW
Forward Voltage at I_F = 200 mA	V_F	1.2	V

Note:

1) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

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Electrical Characteristics (T_A=25℃ unless otherwise noted)

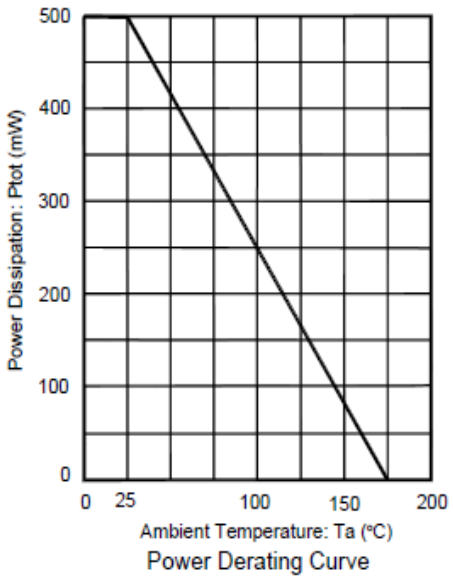
Type	Zener Voltage Range [1]		Maximum Zener Impedance	Maximum Reverse Leakage Current [2] I_R at V_R = 1 V		Maximum Regulator Current
	Vznom (V)	I_{ZT} (mA)	Z_{ZT} (Ω) at I_{ZT}	Ta = 25 ℃	Ta = 150 ℃	I_{ZM} (mA)
				I_R (μA)	I_R (μA)	
1N746	3.3	20	28	10	30	110
1N747	3.6	20	24	10	30	100
1N748	3.9	20	23	10	30	95
1N749	4.3	20	22	2	30	85
1N750	4.7	20	19	2	30	75
1N751	5.1	20	17	1	20	70
1N752	5.6	20	11	1	20	65
1N753	6.2	20	7	0.1	20	60
1N754	6.8	20	5	0.1	20	55
1N755	7.5	20	6	0.1	20	50
1N756	8.2	20	8	0.1	20	45
1N757	9.1	20	10	0.1	20	40
1N758	10	20	17	0.1	20	35
1N759	12	20	30	0.1	20	30

Note:

1) Tested with pulses tp = 20 ms

2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Ratings and Characteristic Curves



Power Derating Curve

Ordering Information

Part No.	Package	Packing Code	Packing
1N746 THRU 1N759	DO-35	A50	5000pcs/Ammo

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