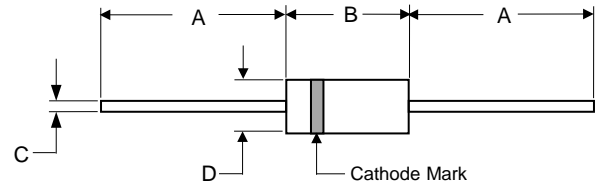


### Features

- \* Standard Zener voltage tolerance is  $\pm 10\%$ .
- \* Add suffix "A" for  $\pm 5\%$  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 ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	500 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	- 65 to + 175	$^\circ\text{C}$

Note:

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

### Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	0.3 <sup>1)</sup>	K/mW
Forward Voltage at $I_F = 200 \text{ mA}$	$V_F$	1.2	V

Note:

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

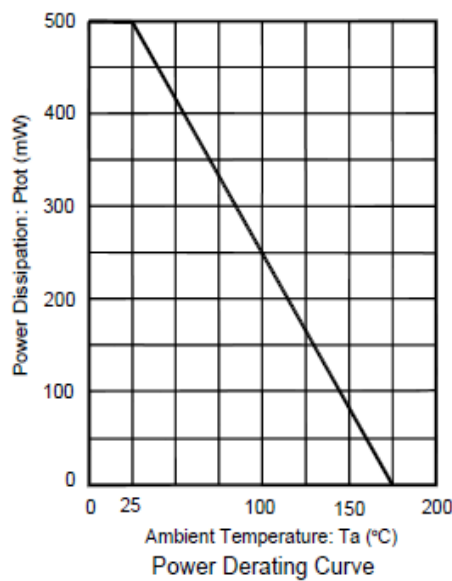
### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type	Zener Voltage Range <sup>1)</sup>		Maximum Zener Impedance	Maximum Reverse Leakage Current <sup>2)</sup> I <sub>R</sub> at V <sub>R</sub> = 1 V		Maximum Regulator Current I <sub>ZM</sub> (mA)
	V <sub>znom</sub> (V)	I <sub>ZT</sub> (mA)		T <sub>a</sub> = 25 °C	T <sub>a</sub> = 150 °C	
			I <sub>R</sub> (μA)	I <sub>R</sub> (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 t<sub>p</sub> = 20 ms
- 2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

### Ratings and Characteristic Curves





# 1N746 THRU 1N759

## *Silicon Planar Zener Diodes*

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### Ordering Information

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

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