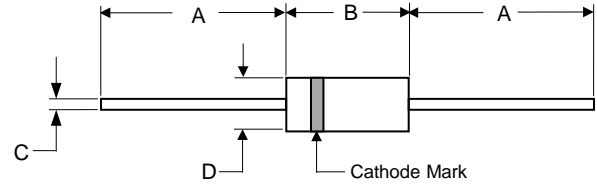


Features

- * Standard Zener voltage tolerance is $\pm 20\%$.
- * Add suffix "A" for $\pm 10\%$ tolerance and suffix "B" 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_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{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_{thA}	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 200 \text{ mA}$	V_F	1.5	V

Note:

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

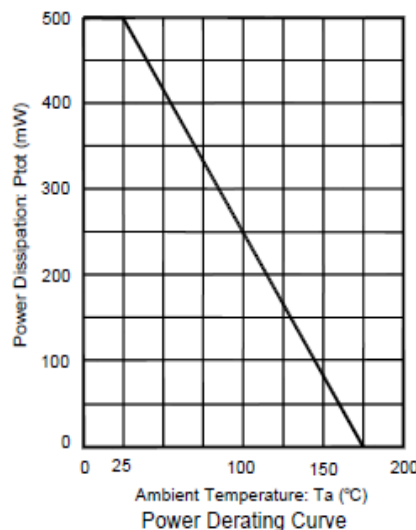
Electrical Characteristics (T_A=25°C unless otherwise noted)

Type	Zener Voltage Range ¹⁾		Maximum Dynamic resistance			Maximum Reverse Leakage Current ²⁾			Maximum Regulator Current I _{ZM} (mA)
	V _{Znom} V	I _{ZT} mA	Z _{ZT} Ω	Z _{ZK} Ω	at I _{ZK} mA	Test-Voltage (V _R)			
						I _R μA	Suffix A V	Suffix B V	
1N957	6.8	18.5	4.5	700	1	150	4.9	5.2	47
1N958	7.5	16.5	5.5	700	0.5	75	5.4	5.7	42
1N959	8.2	15	6.5	700	0.5	50	5.9	6.2	38
1N960	9.1	14	7.5	700	0.5	25	6.6	6.9	35
1N961	10	12.5	8.5	700	0.25	10	7.2	7.6	32
1N962	11	11.5	9.5	700	0.25	5	8	8.4	28
1N963	12	10.5	11.5	700	0.25	5	8.6	9.1	26
1N964	13	9.5	13	700	0.25	5	9.4	9.9	24
1N965	15	8.5	16	700	0.25	5	10.8	11.4	21
1N966	16	7.8	17	700	0.25	5	11.5	12.2	19
1N967	18	7	21	750	0.25	5	13	13.7	17
1N968	20	6.2	25	750	0.25	5	14.4	15.2	15
1N969	22	5.6	29	750	0.25	5	15.8	16.7	14
1N970	24	5.2	33	750	0.25	5	17.3	18.2	13
1N971	27	4.6	41	750	0.25	5	19.4	20.6	11
1N972	30	4.2	49	1000	0.25	5	21.6	22.8	10
1N973	33	3.8	58	1000	0.25	5	23.8	25.1	9
1N974	36	3.4	70	1000	0.25	5	25.9	27.4	8.5
1N975	39	3.2	80	1000	0.25	5	28.1	29.7	7.8
1N976	43	3	93	1500	0.25	5	31	32.7	7
1N977	47	2.7	105	1500	0.25	5	33.8	35.8	6.4
1N978	51	2.5	125	1500	0.25	5	36.7	38.8	5.9

Note:

- 1) Tested with pulses t_p = 20 ms
- 2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Ratings and Characteristic Curves





1N957 THRU 1N978

Silicon Planar Zener Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
1N957 THRU 1N978	DO-35	A50	5000pcs/Ammo

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