

500mW Zener Diodes

Features

- Hermetically sealed glass package zener diodes
- RoHS Compliant



DO-35



Mechanical Data

Case:	Hermetically sealed axial lead glass case, DO-35 package
Terminals:	Leads, tin-lead plated solderable per MIL-STD-750, method 2026
Polarity:	Color band denotes cathode
Weight:	0.2 gram

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

Symbol	Description	Value	Unit
Z_v	Zener Voltage	6.8 to 47	V
P_D	DC Power Dissipation	400	mW
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-65 to 175	° C

Note: 1. These ratings are limiting values above which the serviceability of the diode may be impaired.

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1N957B - 1N977B

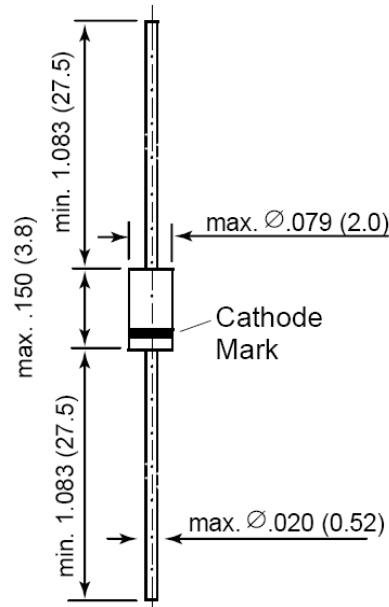
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless noted otherwise)

Part Number (Note1)	Normal Zener Voltage				Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum Zener Current I _{ZM} (Note2)	Typical TEMP. Coeff. Of Zener Voltage V _z
	V _Z @ I _{ZT}				Z _{ZT} @ I _{ZT} (Ω)	Z _{zk} @ I _{zk}		I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)		(Ω)	(mA)	(μA)	(V)	(mA)	(%/° C)
1N957B	6.8	6.46	7.14	18.5	4.5	700	1.0	150	5.2	47	+0.05
1N958B	7.5	7.13	7.88	16.5	5.5	700	0.5	75	5.7	42	+0.058
1N959B	8.2	7.79	8.61	15.0	6.5	700	0.5	50	6.2	38	+0.062
1N960B	9.1	8.65	9.56	14.0	7.5	700	0.5	25	6.9	35	+0.068
1N961B	10	9.50	10.50	12.5	8.5	700	0.25	10	7.6	32	+0.072
1N962B	11	10.45	11.55	11.5	9.5	700	0.25	5	8.4	28	+0.073
1N963B	12	11.40	12.60	10.5	11.5	700	0.25	5	9.1	26	+0.076
1N964B	13	12.35	13.65	9.5	13.0	700	0.25	5	9.9	24	+0.079
1N965B	15	14.25	15.75	8.5	16.0	700	0.25	5	11.4	21	+0.082
1N966B	16	15.20	16.80	7.8	17.0	700	0.25	5	12.2	19	+0.083
1N967B	18	17.10	18.90	7.0	21.0	750	0.25	5	13.7	17	+0.085
1N968B	20	19.00	21.00	6.2	25.0	750	0.25	5	15.2	15	+0.086
1N969B	22	20.90	23.10	5.6	29.0	750	0.25	5	16.7	14	+0.087
1N970B	24	22.80	25.20	5.2	33.0	750	0.25	5	18.2	13	+0.088
1N971B	27	25.65	28.35	4.6	41.0	750	0.25	5	20.6	11	+0.090
1N972B	30	28.50	31.50	4.2	49.0	1000	0.25	5	22.8	10	+0.091
1N973B	33	31.35	34.65	3.8	58.0	1000	0.25	5	25.1	9.2	+0.092
1N974B	36	34.20	37.80	3.4	70.0	1000	0.25	5	27.4	8.5	+0.093
1N975B	39	37.05	40.95	3.2	80.0	1000	0.25	5	29.7	7.8	+0.094
1N976B	43	40.85	45.15	3.0	93.0	1500	0.25	5	32.7	7.0	+0.095
1N977B	47	44.65	49.35	2.7	105.0	1500	0.25	5	35.8	6.4	+0.095

Note 1: The part numbers shown above have a Zener voltage tolerance of $\pm 5\%$ of the nominal Zener voltage.

2: I_{ZM} Values shown are based on the JEDEC rating of 400 milliwatts. Where the actual zener voltage (V_Z) is known at the operating point, the maximum zener current may be increased and is limited by the derating curve.

Dimensions in inch (mm)



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DO-35

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