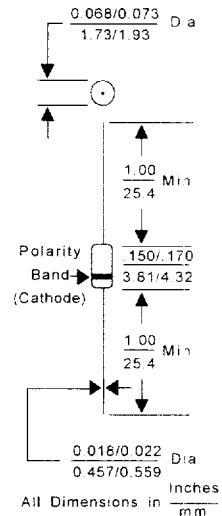


ZENER DIODES, GENERAL PURPOSE

400mW JEDEC Part Number	Nominal Zener Voltage at I_z	Zener Test Current	Maximum Zener Impedance			Max DC Zener Current	Max. Recurr. Surge	Maximum Reverse Leakage Current		Max. Temp. Coeff.	Package Quantities	Outline
	V_z (Volts)	I_z (mA)	$Z_z @ I_z$ (Ohms)	$Z_{0.1} @ I_z$ (Ohms)	I_{z0} (mA)	I_{zsm} (mA)	I_r (mA)	V_r (Volts)	I_r (µA)	%/°C	Bulk/Reel	Inches/millimeters
1N957B	6.8	18.5	4.5	700	1.00	55	300	150	5.2	+0.050	1000/ 10,000	FEATURES: • Zener Voltage: 6.8 to 200 volts • Hermetically sealed glass package MAXIMUM RATINGS: • Junction Temperature: -65°C to +175°C • Storage temperature: -65°C to +175°C • DC Power Dissipation: 400 mW at $T_A = 75^\circ\text{C}$ • Derate above 75°C: 4.0 mW/°C • Forward Voltage at 200 mA: 1.5 volts max. JEDEC Registered Data Standard B Suffix Voltage Tolerance is ±5%. Suffix A = ±10%, Suffix C = ±2%, Suffix D = ±1%
1N958B	7.5	16.5	5.5	700	0.50	50	275	75	5.7	+0.058		
1N959B	8.2	15.0	6.5	700	0.50	45	250	50	6.2	+0.065		
1N960B	9.1	14.0	7.5	700	0.50	41	225	25	6.9	+0.068		
1N961B	10	12.5	8.5	700	0.25	38	200	10	7.6	+0.075		
1N962B	11	11.5	9.5	700	0.25	32	175	5	8.4	+0.076		
1N963B	12	10.5	11.5	700	0.25	31	160	5	9.1	+0.077		
1N964B	13	9.5	13	700	0.25	28	150	5	9.9	+0.079		
1N965B	15	8.5	16	700	0.25	25	130	5	11.4	+0.082		
1N966B	16	7.8	17	700	0.25	24	120	5	12.2	+0.083		
1N967B	18	7.0	21	750	0.25	20	110	5	13.7	+0.085	1000/ 10,000	
1N968B	20	6.2	25	750	0.25	18	100	5	15.2	+0.086		
1N969B	22	5.6	29	750	0.25	16	90	5	16.7	+0.087		
1N970B	24	5.2	33	750	0.25	15	80	5	18.2	+0.088		
1N971B	27	4.6	41	750	0.25	13	70	5	20.6	+0.090		
1N972B	30	4.2	49	1000	0.25	12	65	5	22.8	+0.091		
1N973B	33	3.8	58	1000	0.25	11	60	5	25.1	+0.092		
1N974B	36	3.4	70	1000	0.25	10	55	5	27.4	+0.093		
1N975B	39	3.3	80	1000	0.25	9.5	46	5	29.7	+0.094		
1N976B	43	3.0	93	1500	0.25	8.8	44	5	32.7	+0.095		
1N977B	47	2.7	105	1500	0.25	7.9	40	5	35.8	+0.095	1000/ 10,000	
1N978B	51	2.5	125	1500	0.25	7.4	37	5	38.8	+0.096		
1N979B	56	2.2	150	2000	0.25	6.6	35	5	42.6	+0.096		
1N980B	62	2.0	185	2000	0.25	6.0	30	5	47.1	+0.097		
1N981B	68	1.8	230	2000	0.25	5.5	28	5	51.7	+0.097		
1N982B	75	1.7	270	2000	0.25	5.0	26	5	56.0	+0.098		
1N983B	82	1.5	330	3000	0.25	4.6	23	5	62.2	+0.098		
1N984B	91	1.4	400	3000	0.25	4.1	21	5	69.2	+0.099		
1N985B	100	1.3	500	3000	0.25	3.7	18	5	76.0	+0.110		
1N986B	110	1.1	750	4000	0.25	3.3	16	5	83.6	+0.110		
1N987B	120	1.0	900	4500	0.25	3.1	15	5	91.2	+0.110	1000/ 10,000	
1N988B	130	0.95	1100	5000	0.25	2.7	13	5	98.8	+0.110		
1N989B	150	0.85	1500	6000	0.25	2.4	12	5	114.0	+0.110		
1N990B	160	0.80	1700	6500	0.25	2.2	11	5	121.6	+0.110		
1N991B	180	0.68	2200	7100	0.25	2.0	10	5	146.8	+0.110		
1N992B	200	0.65	2500	8000	0.25	1.8	9	5	152.0	+0.110		



DO-35

400mW JEDEC Part Number	Nominal Zener Voltage at I_z V_z (V)	Zener Test Current I_z (µA)	Max Zener Impedance $Z_z @ I_z$ (Ohms)	Maximum Reverse Leakage Current at $V_r = 1.0$ volts		Typical Temperature Coefficient of Zener Voltage (%/°C)
				$T_A = 25^\circ\text{C}$	$T_A = 150^\circ\text{C}$	
				I_r (µA)	I_r (µA)	
1N4370	2.4	20	30	100	200	-0.085
1N4371	2.7	20	30	75	150	-0.080
1N4372	3.0	20	29	50	150	-0.075
1N746	3.3	20	28	10	110	-0.066
1N747	3.6	20	24	10	100	-0.058
1N748	3.9	20	23	10	95	-0.046
1N749	4.3	20	22	2.0	85	-0.033
1N750	4.7	20	19	2.0	75	-0.015
1N751	5.1	20	17	1.0	70	±0.010
1N752	5.6	20	11	1.0	65	+0.030
1N753	6.2	20	7	0.1	60	+0.049
1N754	6.8	20	5	0.1	55	+0.053
1N755	7.5	20	6	0.1	50	+0.057
1N756	8.2	20	8	0.1	45	+0.060
1N757	9.1	20	10	0.1	40	+0.061
1N758	10.0	20	17	0.1	35	+0.062
1N759	12.0	20	30	0.1	30	+0.062

FEATURES:

- Zener Voltage: 1.8 to 43 volts
- Hermetically sealed DO-35.

MAXIMUM RATINGS:

- Junction Temperature: -65°C to +200°C
- Storage temperature: -65°C to +175°C
- DC Power Dissipation: 400 mW at $T_A = 75^\circ\text{C}$
- Derate above 75°C: 4.0 mW/°C
- Forward Voltage @ 200 mA: 1.5 volts max.

Standard (No Suffix) Voltage Tolerance is ±10%. Suffix A = ±5%, Suffix C = ±2%, Suffix D = ±1%