



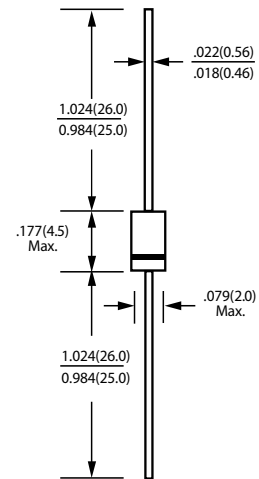
**Features**

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- VZ-tolerance  $\pm 5\%$

**Mechanical data**

- Case: DO-35
- Case Material: Double slug type, hermetically sealed glass
- Finish: All external surfaces are corrosion resistant and leads are readily solderable
- Polarity: Cathode indicated by polarity band
- Mounting: Any

**DO-35**



Dimensions in inches and (millimeters)

**ABSOLUTE MAXIMUM RATINGS (TA = 25°C unless otherwise specified)1**

Parameter	Symbol	Value	Unit
Power dissipation	$P_D$	500	mW
Operating and Storage Temperature Range	$T_J, T_{STG}$	175, -65 ~ 175	°C

Note:

1. Some part number series have lower JEDEC registered ratings

# DEVICE CHARACTERISTICS

## 1N52xxB

Part Number	Nominal Zener Voltage VZ(V) @ IZT			Max. Zener Impedance				Reverse Leakage Current		Marking
	Min.	Nom.	Max.	IZT(mA)	@ ZZT(Ω)	ZZK(Ω)	@ IZK(mA)	IR(uA)	@ VR(V)	
1N5221B	2.28	2.4	2.52	20	30	1200	0.25	100	1	1N5221B
1N5222B	2.375	2.5	2.625	20	30	1250	0.25	100	1	1N5222B
1N5223B	2.565	2.7	2.835	20	30	1300	0.25	75	1	1N5223B
1N5224B	2.66	2.8	2.94	20	30	1400	0.25	75	1	1N5224B
1N5225B	2.85	3	3.15	20	29	1600	0.25	50	1	1N5225B
1N5226B	3.135	3.3	3.465	20	28	1600	0.25	25	1	1N5226B
1N5227B	3.42	3.6	3.78	20	24	1700	0.25	15	1	1N5227B
1N5228B	3.705	3.9	4.095	20	23	1900	0.25	10	1	1N5228B
1N5229B	4.085	4.3	4.515	20	22	2000	0.25	5	1	1N5229B
1N5230B	4.465	4.7	4.935	20	19	1900	0.25	5	2	1N5230B
1N5231B	4.845	5.1	5.355	20	17	1600	0.25	5	2	1N5231B
1N5232B	5.32	5.6	5.88	20	11	1600	0.25	5	3	1N5232B
1N5233B	5.7	6	6.3	20	7	1600	0.25	5	3.5	1N5233B
1N5234B	5.89	6.2	6.51	20	7	1000	0.25	5	4	1N5234B
1N5235B	6.46	6.8	7.14	20	5	750	0.25	3	5	1N5235B
1N5236B	7.125	7.5	7.875	20	6	500	0.25	3	6	1N5236B
1N5237B	7.79	8.2	8.61	20	8	500	0.25	3	6.5	1N5237B
1N5238B	8.265	8.7	9.135	20	8	600	0.25	3	6.5	1N5238B
1N5239B	8.645	9.1	9.555	20	10	600	0.25	3	7	1N5239B
1N5240B	9.5	10	10.5	20	17	600	0.25	3	8	1N5240B
1N5241B	10.45	11	11.55	20	22	600	0.25	2	8.4	1N5241B
1N5242B	11.4	12	12.6	20	30	600	0.25	1	9.1	1N5242B
1N5243B	12.35	13	13.65	9.5	13	600	0.25	0.5	9.9	1N5243B
1N5244B	13.3	14	14.7	9	15	600	0.25	0.1	10	1N5244B
1N5245B	14.25	15	15.75	8.5	16	600	0.25	0.1	11	1N5245B
1N5246B	15.2	16	16.8	7.8	17	600	0.25	0.1	12	1N5246B
1N5247B	16.15	17	17.85	7.4	19	600	0.25	0.1	13	1N5247B
1N5248B	17.1	18	18.9	7	21	600	0.25	0.1	14	1N5248B
1N5249B	18.05	19	19.95	6.6	23	600	0.25	0.1	14	1N5249B
1N5250B	19	20	21	6.2	25	600	0.25	0.1	15	1N5250B
1N5251B	20.9	22	23.1	5.6	29	600	0.25	0.1	17	1N5251B
1N5252B	22.8	24	25.2	5.2	33	600	0.25	0.1	18	1N5252B
1N5253B	23.75	25	26.25	5	35	600	0.25	0.1	19	1N5253B
1N5254B	25.65	27	28.35	4.6	41	600	0.25	0.1	21	1N5254B
1N5255B	26.6	28	29.4	4.5	44	600	0.25	0.1	21	1N5255B
1N5256B	28.5	30	31.5	4.2	49	600	0.25	0.1	23	1N5256B
1N5257B	31.35	33	34.65	3.8	58	700	0.25	0.1	25	1N5257B
1N5258B	34.2	36	37.8	3.4	70	700	0.25	0.1	27	1N5258B
1N5259B	37.05	39	40.95	3.2	80	800	0.25	0.1	30	1N5259B
1N5260B	40.85	43	45.15	3	93	900	0.25	0.1	33	1N5260B
1N5261B	44.65	47	49.35	2.7	105	1000	0.25	0.1	36	1N5261B
1N5262B	48.45	51	53.55	2.5	125	1100	0.25	0.1	39	1N5262B
1N5263B	53.2	56	58.8	2.2	150	1300	0.25	0.1	43	1N5263B
1N5264B	57	60	63	2.1	170	1400	0.25	0.1	46	1N5264B
1N5265B	58.9	62	65.1	2	185	1400	0.25	0.1	47	1N5265B
1N5266B	64.6	68	71.4	1.8	230	1600	0.25	0.1	52	1N5266B
1N5267B	71.25	75	78.75	1.7	270	1700	0.25	0.1	56	1N5267B

# DEVICE CHARACTERISTICS

1N52xxB

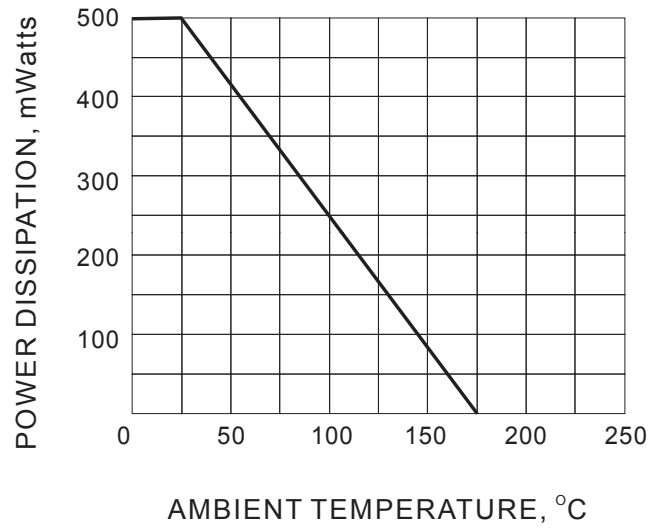


FIG.1 POWER DERATING CURVE

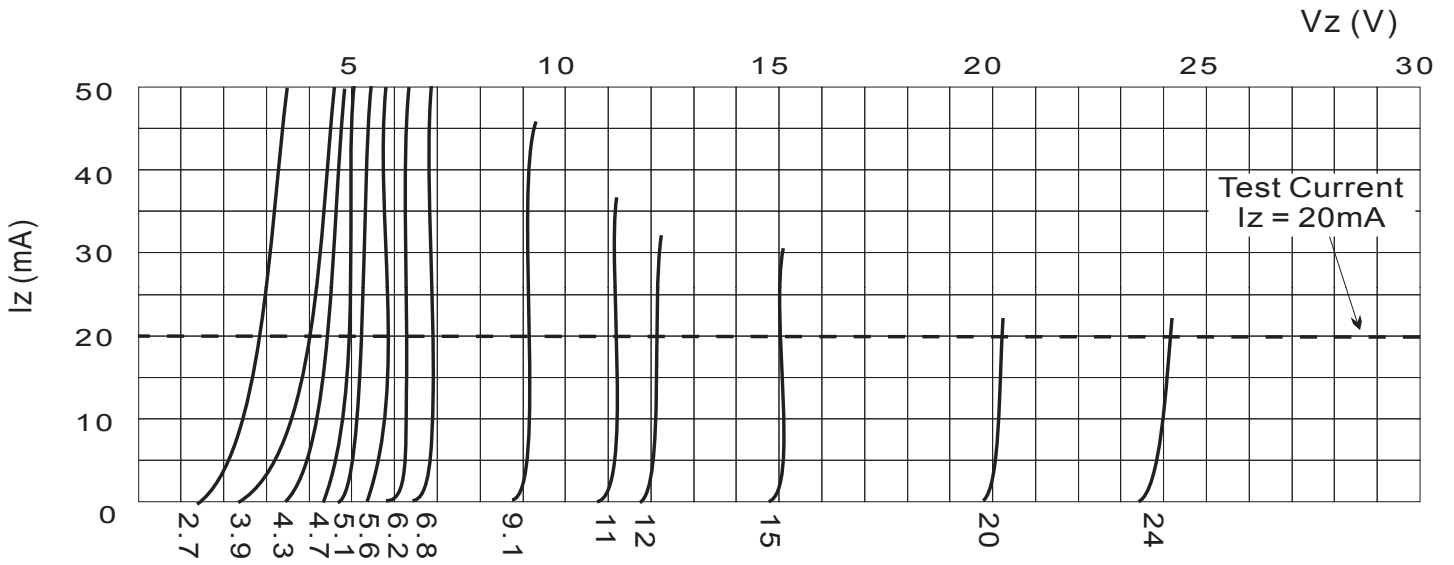


Fig.2 BREAKDOWN CHARACTERISTICS