

DO-35

Dimensions in inches and (millimeters)



PRIMARY CHARACTERISTICS

I_F	200mA
V_{RRM}	2.4~75V
V_F	1.1V
$T_J \text{ max}$	200°C

FEATURES

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

PACKAGING INFORMATION

- 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

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



1N52xxB SERIES



500mW Zener Diode

500 mWatt Zener Diodes / DO-35

Part Number	Nominal Zener Voltage				Max. Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}				Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	mA	Ω	mA	Ω	mA	uA	V	
1N5221B	2.4	2.28	2.52	20	30	20	1200	0.25	100	1.0	1N5221B
1N5222B	2.5	2.38	2.63	20	30	20	1250	0.25	100	1.0	1N5222B
1N5223B	2.7	2.57	2.84	20	30	20	1300	0.25	75	1.0	1N5223B
1N5224B	2.8	2.66	2.94	20	30	20	1400	0.25	75	1.0	1N5224B
1N5225B	3.0	2.85	3.15	20	29	20	1600	0.25	50	1.0	1N5225B
1N5226B	3.3	3.14	3.47	20	28	20	1600	0.25	25	1.0	1N5226B
1N5227B	3.6	3.42	3.78	20	24	20	1700	0.25	15	1.0	1N5227B
1N5228B	3.9	3.71	4.10	20	23	20	1900	0.25	10	1.0	1N5228B
1N5229B	4.3	4.09	4.52	20	22	20	2000	0.25	5.0	1.0	1N5229B
1N5230B	4.7	4.47	4.94	20	19	20	1900	0.25	5.0	2.0	1N5230B
1N5231B	5.1	4.85	5.36	20	17	20	1600	0.25	5.0	2.0	1N5231B
1N5232B	5.6	5.32	5.88	20	11	20	1600	0.25	5.0	3.0	1N5232B
1N5233B	6.0	5.70	6.30	20	7	20	1600	0.25	5.0	3.5	1N5233B
1N5234B	6.2	5.89	6.51	20	7	20	1000	0.25	5.0	4.0	1N5234B
1N5235B	6.8	6.46	7.14	20	5	20	750	0.25	3.0	5.0	1N5235B
1N5236B	7.5	7.13	7.88	20	6	20	500	0.25	3.0	6.0	1N5236B
1N5237B	8.2	7.79	8.61	20	8	20	500	0.25	3.0	6.5	1N5237B
1N5238B	8.7	8.27	9.14	20	8	20	600	0.25	3.0	6.5	1N5238B
1N5239B	9.1	8.65	9.56	20	10	20	600	0.25	3.0	7.0	1N5239B
1N5240B	10.0	9.50	10.50	20	17	20	600	0.25	3.0	8.0	1N5240B
1N5241B	11.0	10.45	11.55	20	22	20	600	0.25	2.0	8.4	1N5241B
1N5242B	12.0	11.40	12.60	20	30	20	600	0.25	1.0	9.1	1N5242B
1N5243B	13.0	12.35	13.65	9.5	13	9.5	600	0.25	0.5	9.9	1N5243B
1N5244B	14.0	13.30	14.70	9.0	15	9.0	600	0.25	0.1	10.0	1N5244B
1N5245B	15.0	14.25	15.75	8.5	16	8.5	600	0.25	0.1	11.0	1N5245B
1N5246B	16.0	15.20	16.80	7.8	17	7.8	600	0.25	0.1	12.0	1N5246B
1N5247B	17.0	16.15	17.85	7.4	19	7.4	600	0.25	0.1	13.0	1N5247B
1N5248B	18.0	17.10	18.90	7.0	21	7.0	600	0.25	0.1	14.0	1N5248B
1N5249B	19.0	18.05	19.95	6.6	23	6.6	600	0.25	0.1	14.0	1N5249B
1N5250B	20.0	19.00	21.00	6.2	25	6.2	600	0.25	0.1	15.0	1N5250B
1N5251B	22.0	20.90	23.10	5.6	29	5.6	600	0.25	0.1	17.0	1N5251B
1N5252B	24.0	22.80	25.20	5.2	33	5.2	600	0.25	0.1	18.0	1N5252B
1N5253B	25.0	23.75	26.25	5.0	35	5.0	600	0.25	0.1	19.0	1N5253B
1N5254B	27.0	25.65	28.35	4.6	41	4.6	600	0.25	0.1	21.0	1N5254B
1N5255B	28.0	26.60	29.40	4.5	44	4.5	600	0.25	0.1	21.0	1N5255B
1N5256B	30.0	28.50	31.50	4.2	49	4.2	600	0.25	0.1	23.0	1N5256B
1N5257B	33.0	31.35	34.65	3.8	58	3.8	700	0.25	0.1	25.0	1N5257B
1N5258B	36.0	34.20	37.80	3.4	70	3.4	700	0.25	0.1	27.0	1N5258B



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	V _Z @ I _{ZT}				Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
Nom. V	Min. V	Max. V	mA	Ω	mA	Ω	mA	uA	V		
1N5259B	39.0	37.05	40.95	3.2	80	3.2	800	0.25	0.1	30.0	1N5259B
1N5260B	43.0	40.85	45.15	3.0	93	3.0	900	0.25	0.1	33.0	1N5260B
1N5261B	47.0	44.65	49.35	2.7	105	2.7	1000	0.25	0.1	36.0	1N5261B
1N5262B	51.0	48.45	53.55	2.5	125	2.5	1100	0.25	0.1	39.0	1N5262B
1N5263B	56.0	53.20	58.80	2.2	150	2.2	1300	0.25	0.1	43.0	1N5263B
1N5264B	60.0	57.00	63.00	2.1	170	2.1	1400	0.25	0.1	46.0	1N5264B
1N5265B	62.0	58.90	65.10	2.0	185	2.0	1400	0.25	0.1	47.0	1N5265B
1N5266B	68.0	64.60	71.40	1.8	230	1.8	1600	0.25	0.1	52.0	1N5266B
1N5267B	75.0	71.25	78.75	1.7	270	1.7	1700	0.25	0.1	56.0	1N5267B

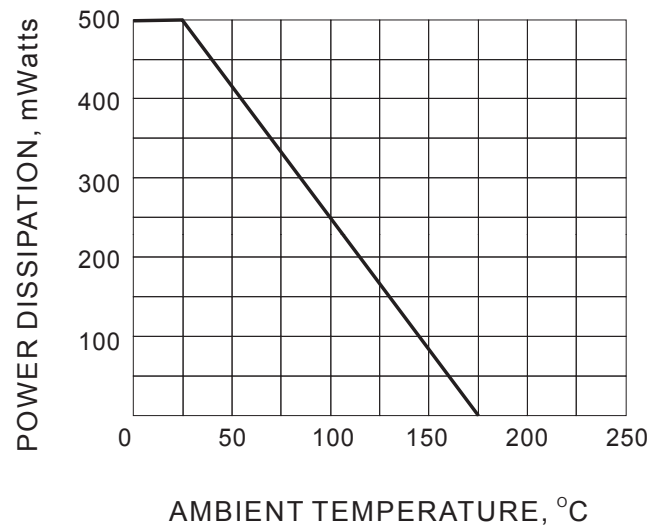


FIG.1 POWER DERATING CURVE

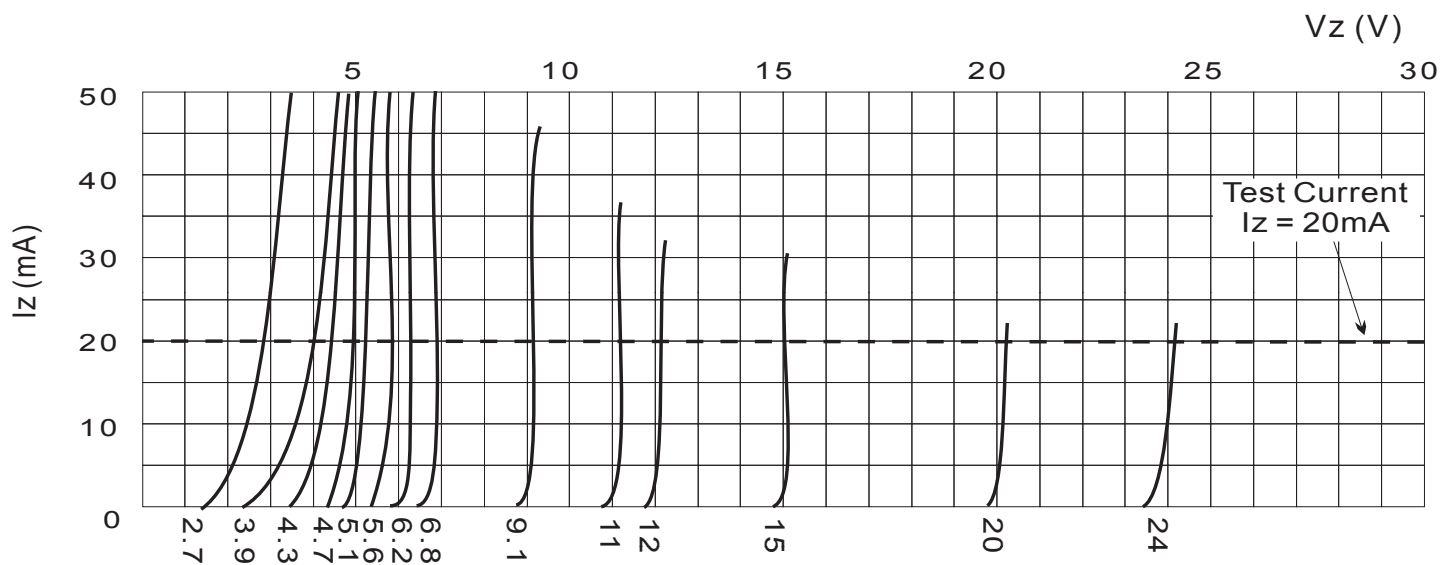


Fig.2 BREAKDOWN CHARACTERISTICS