15221B-1N5263B

ZENER DIODES

VOLTAGE RANGE: 2.4 --- 56V PEAK PULSE POWER:500mW

FEATURES

- ●Low zener impedance
- ●Low regulation factor
- ●Glass passivated junction
- ●High temperature soldering guaranteed:260℃/10S/9.5mm lead length at 5 lbs tension

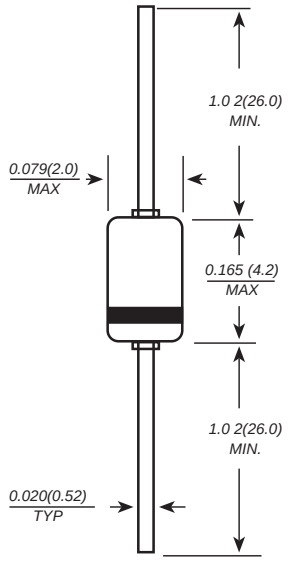
MECHANICAL DATA

- ●Case:DO-35(GLASS) molded glass body
- ●Terminals: Plated axial leads, solderable per MIL-STD 750, method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

DO-35(GLASS)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameters	SYMBOLS	VALUE	UNITS
Power Dissipation at Tamb=25 C(Note 1)	P_{tot}	500	mW
Junction Temperature	T_J	200	℃
Storage Temperature Range	T_{STG}	-65 to + 200	℃
Thermal resistance junction ambient(Note 1)	$R_{ØJA}$	0.3	K/mW
Forward voltage at I_F=200mA	V_F	1.1	V

Note 1: Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

RATINGS AND CHARACTERISTIC CURVES

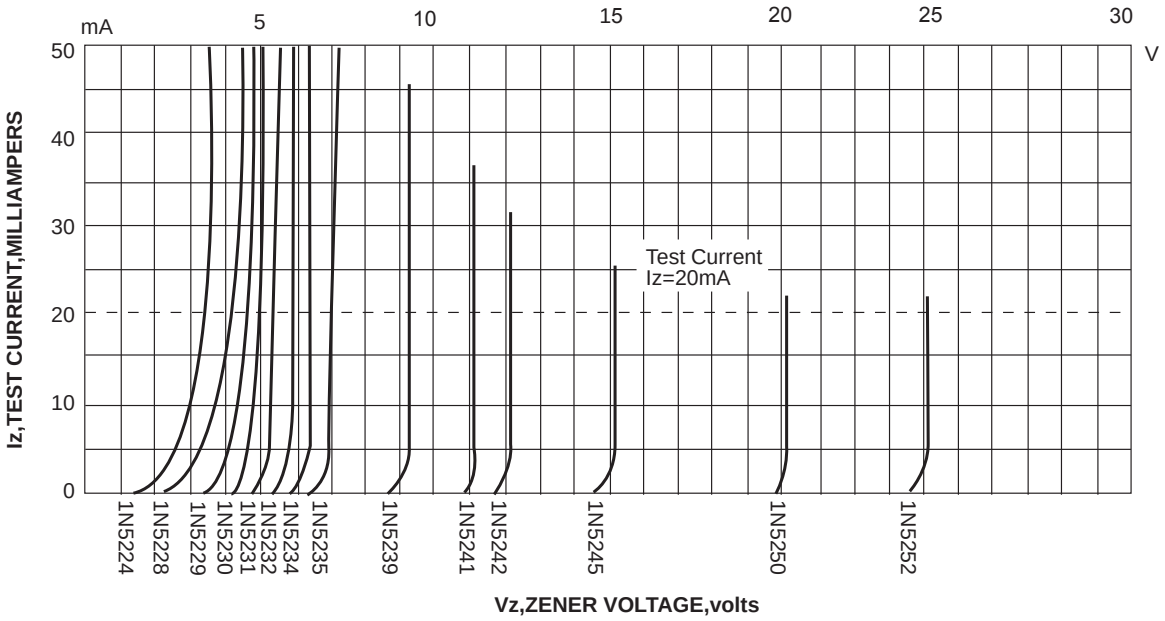
Electrical Specification (T_A=25@25°C unless otherwise specified)

Device Type	Nominal Zener Voltage V_Z@I_{ZT}	Test Current I_{ZT}	Maximum Zener Impedance		Maximum Reverse Leakage Current		Typical Temperature Coefficient	Maximum Regulator Regulator I_{ZM}	
			Z_{ZT}@I_{ZT}	Z_{ZK}@I_{ZK}=0.25m	I_R	@V_R			
	(Volts)	(mA)	Ohms		mA	Volts	(%/ C)	mA	
1N5221B	2.4	20	30	1200	100		1.0	-0.085	191
1N5222B	2.5	20	30	1250	100		1.0	-0.085	182
1N5223B	2.7	20	30	1300	75		1.0	-0.080	168
1N5224B	2.8	20	30	1400	75		1.0	-0.080	162
1N5225B	3.0	20	29	1600	50		1.0	-0.075	151
1N5226B	3.3	20	28	1600	25		1.0	-0.070	138
1N5227B	3.6	20	24	1700	15		1.0	-0.065	126
1N5228B	3.9	20	23	1900	10		1.0	-0.060	115
1N5229B	4.3	20	22	2000	5.0		1.0	±0.055	106
1N5230B	4.7	20	19	1900	5.0		2.0	±0.30	97
1N5231B	5.1	20	17	1600	5.0		2.0	±0.30	89
1N5232B	5.6	20	11	1600	5.0		3.0	+0.038	81
1N5233B	6.0	20	7	1600	5.0		3.5	+0.038	76
1N5234B	6.2	20	7	1000	5.0		4.0	+0.045	73
1N5235B	6.8	20	5	750	3.0		5.0	+0.050	67
1N5236B	7.5	20	6	500	3.0		6.0	+0.058	61
1N5237B	8.2	20	8	500	3.0		6.5	+0.062	55
1N5238B	8.7	20	8	600	3.0		6.5	+0.065	52
1N5239B	9.1	20	10	600	3.0		7.0	+0.068	50
1N5240B	10	20	17	600	3.0		8.0	+0.075	45
1N5241B	11	20	22	600	2.0		8.4	+0.076	41
1N5242B	12	20	30	600	1.0		9.1	+0.077	38
1N5243B	13	9.5	13	600	0.5		9.9	+0.079	35
1N5244B	14	9.0	15	600	0.1		10	+0.082	32
1N5245B	15	8.5	16	600	0.1		11	+0.082	30
1N5246B	16	7.8	17	600	0.1		12	+0.083	28
1N5247B	17	7.4	19	600	0.1		13	+0.084	27
1N5248B	18	7.0	21	600	0.1		14	+0.085	25
1N5249B	19	6.6	23	600	0.1		14	+0.085	24
1N5250B	20	6.2	25	600	0.1		15	+0.086	23
1N5251B	22	5.6	29	600	0.1		17	+0.087	21.2
1N5252B	24	5.2	33	600	0.1		18	+0.088	19.1
1N5253B	25	5.0	35	600	0.1		19	+0.089	18.2
1N5254B	27	4.6	41	600	0.1		21	+0.090	16.8
1N5255B	28	4.5	44	600	0.1		21	+0.091	16.2
1N5256B	30	4.2	49	600	0.1		23	+0.091	15.1
1N5257B	33	3.8	58	700	0.1		25	+0.092	13.8
1N5258B	36	3.4	70	700	0.1		27	+0.093	12.6
1N5259B	39	3.2	80	800	0.1		30	+0.094	11.5
1N5260B	43	3.0	93	900	0.1		33	+0.095	10.6
1N5261B	47	2.7	150	1000	0.1		36	+0.095	9.7
1N5262B	51	2.5	125	1100	0.1		39	+0.096	8.9
1N5263B	56	2.2	150	1300	0.1		43	+0.096	8.1

Note 1:VF=1.2V@IF=200mA,Tolerance of zener voltage:±5%

RATINGS AND CHARACTERISTIC CURVES

Breakdown characteristics



Admissible power dissipation versus ambient temperature

Valid provided that leads are kept at ambient temperature at a distance of 10mm from case