

1N5221B-G Thru. 1N5267B-G

Voltage: 2.4 to 75 Volts

Power: 0.5 Watts

RoHS Device

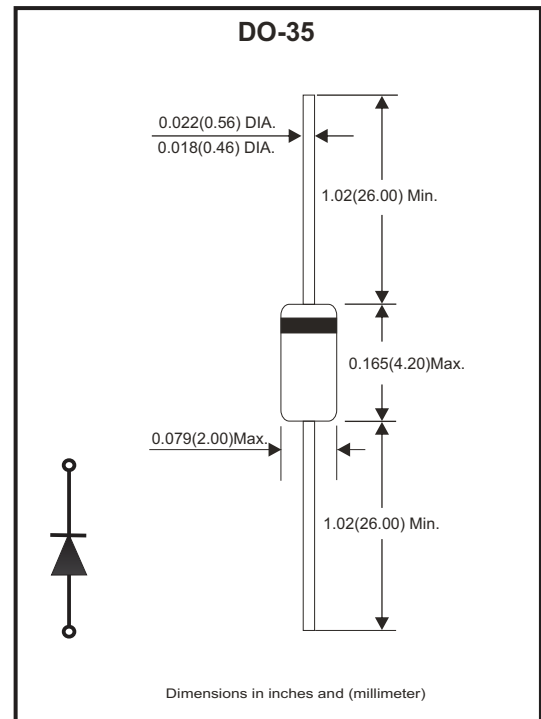


Features

- 500mW power dissipation
- Stabilizing voltage.

Mechanical data

- Case: Glass, DO-35
- Polarity: Indicated by cathode band



Maximum Ratings (TA=25°C, unless otherwise noted)

Parameter	Conditions	Symbol	Value	Unit
Power dissipation	TL=25°C	P _{tot}	500	mW
Zener current		I _Z	P _{tot} /V _Z	mA
Junction temperature		T _J	175	°C
Storage temperature range		T _{STG}	-65 to +175	°C

Electrical Characteristics (TA=25°C, unless otherwise noted)

Parameter	Conditions	Symbol	Max	Unit
Thermal resistance (Note 1)	Junction to ambient air L=4mm, TL=25°C	R _{θJA}	300	°C/W
Forward voltage	I _F =200mA	V _F	1.1	V

Note: Based on dc-measurement at thermal equilibrium; lead length = 9.5 (3/8"); thermal resistance of heat sink =30°C/W

Axial Leaded Glass Zener Diode



Electrical Characteristics (1N5221B-G Thru. 1N5267B-G)

Part No.	Nominal Zener Voltage ⁽¹⁾	Maximum dynamic Impedance resistance				Maximum Reverse Leakage Current		Temperature of Coefficient	Marking Code
	Vz @ IzT	ZzT @ IzT		Zzk @ Izk		IR @ VR		@ IzT	
	V	Ω	mA	Ω	mA	μA	V	α(%/K)	
1N5221B-G	2.4	30	20	1200	0.25	100	1	-0.085	1N5221B
1N5222B-G	2.5	30	20	1250	0.25	100	1	-0.085	1N5222B
1N5223B-G	2.7	30	20	1300	0.25	75	1	-0.080	1N5223B
1N5224B-G	2.8	30	20	1400	0.25	75	1	-0.080	1N5224B
1N5225B-G	3.0	29	20	1600	0.25	50	1	-0.075	1N5225B
1N5226B-G	3.3	28	20	1600	0.25	25	1	-0.070	1N5226B
1N5227B-G	3.6	24	20	1700	0.25	15	1	-0.065	1N5227B
1N5228B-G	3.9	23	20	1900	0.25	10	1	-0.060	1N5228B
1N5229B-G	4.3	22	20	2000	0.25	5	1	+0.055	1N5229B
1N5230B-G	4.7	19	20	1900	0.25	5	2	+0.030	1N5230B
1N5231B-G	5.1	17	20	1600	0.25	5	2	+0.030	1N5231B
1N5232B-G	5.6	11	20	1600	0.25	5	3	+0.038	1N5232B
1N5233B-G	6.0	7	20	1600	0.25	5	3.5	+0.038	1N5233B
1N5234B-G	6.2	7	20	1000	0.25	5	4	+0.045	1N5234B
1N5235B-G	6.8	5	20	750	0.25	3	5	+0.050	1N5235B
1N5236B-G	7.5	6	20	500	0.25	3	6	+0.058	1N5236B
1N5237B-G	8.2	8	20	500	0.25	3	6.5	+0.062	1N5237B
1N5238B-G	8.7	8	20	600	0.25	3	6.5	+0.065	1N5238B
1N5239B-G	9.1	10	20	600	0.25	3	7	+0.068	1N5239B
1N5240B-G	10	17	20	600	0.25	3	8	+0.075	1N5240B
1N5241B-G	11	22	20	600	0.25	2	8.4	+0.076	1N5241B
1N5242B-G	12	30	20	600	0.25	1	9.1	+0.077	1N5242B
1N5243B-G	13	13	9.5	600	0.25	0.5	9.9	+0.079	1N5243B
1N5244B-G	14	15	9	600	0.25	0.1	10	+0.082	1N5244B
1N5245B-G	15	16	8.5	600	0.25	0.1	11	+0.082	1N5245B
1N5246B-G	16	17	7.8	600	0.25	0.1	12	+0.083	1N5246B
1N5247B-G	17	19	7.4	600	0.25	0.1	13	+0.084	1N5247B
1N5248B-G	18	21	7	600	0.25	0.1	14	+0.085	1N5248B
1N5249B-G	19	23	6.6	600	0.25	0.1	14	+0.086	1N5249B
1N5250B-G	20	25	6.2	600	0.25	0.1	15	+0.086	1N5250B
1N5251B-G	22	29	5.6	600	0.25	0.1	17	+0.087	1N5251B
1N5252B-G	24	33	5.2	600	0.25	0.1	18	+0.088	1N5252B
1N5253B-G	25	35	5	600	0.25	0.1	19	+0.089	1N5253B
1N5254B-G	27	41	4.6	600	0.25	0.1	21	+0.090	1N5254B
1N5255B-G	28	44	4.5	600	0.25	0.1	21	+0.091	1N5255B
1N5256B-G	30	49	4.2	600	0.25	0.1	23	+0.091	1N5256B
1N5257B-G	33	58	3.8	700	0.25	0.1	25	+0.092	1N5257B
1N5258B-G	36	70	3.4	700	0.25	0.1	27	+0.093	1N5258B
1N5259B-G	39	80	3.2	800	0.25	0.1	30	+0.094	1N5259B
1N5260B-G	43	93	3	900	0.25	0.1	33	+0.095	1N5260B
1N5261B-G	47	105	2.7	1000	0.25	0.1	36	+0.095	1N5261B
1N5262B-G	51	125	2.5	1100	0.25	0.1	39	+0.096	1N5262B
1N5263B-G	56	150	2.2	1300	0.25	0.1	43	+0.096	1N5263B
1N5264B-G	60	170	2.1	1400	0.25	0.1	46	+0.097	1N5264B
1N5265B-G	62	185	2	1400	0.25	0.1	47	+0.097	1N5265B
1N5266B-G	68	230	1.8	1600	0.25	0.1	52	+0.097	1N5266B
1N5267B-G	75	270	1.7	1700	0.25	0.1	56	+0.098	1N5267B

Note:(1) Based on DC measurement at thermal equilibrium; lead length=9.5(3/8"); thermal resistance of heat sink=30°C/W

Company reserves the right to improve product design , functions and reliability without notice.

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RATING AND CHARACTERISTIC CURVES (1N5221B-G Thru. 1N5267B-G)

Fig.1 - Power Derating Curve

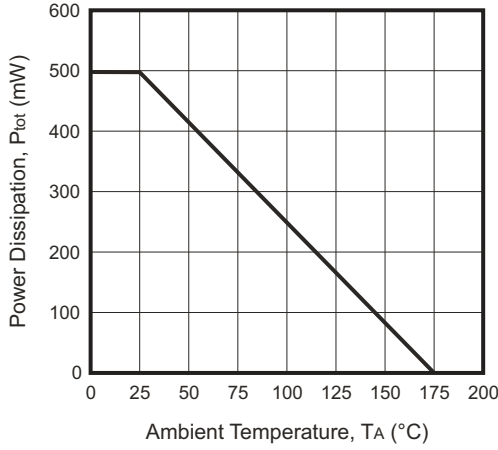


Fig.2 - Thermal Resistance vs. Lead Length

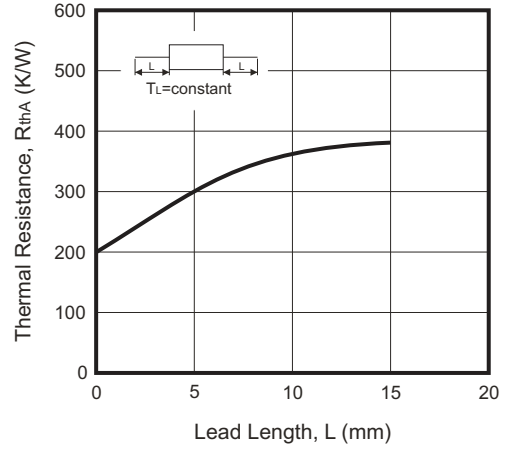


Fig.3 - Forward Current vs. Forward Voltage

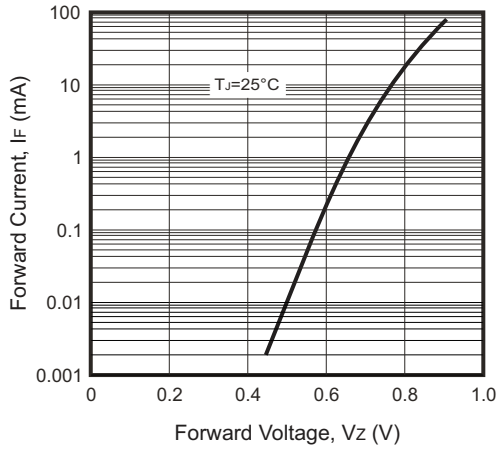


Fig.4 - Differential Z-Resistance vs. Z-Voltage

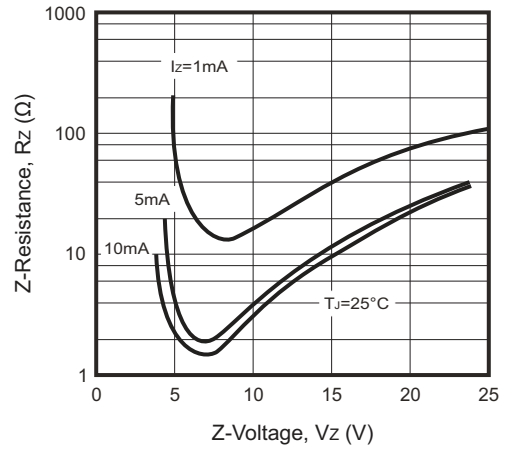


Fig.5 - Z-Current vs. Z-Voltage

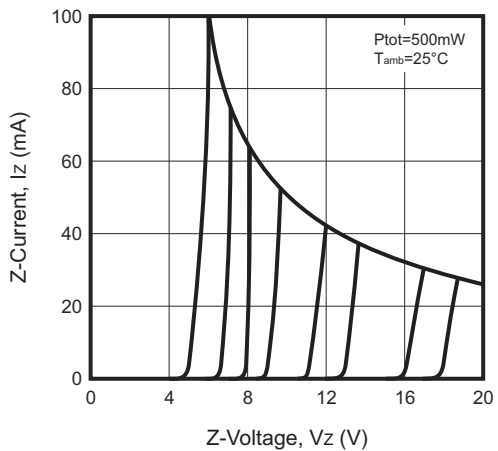
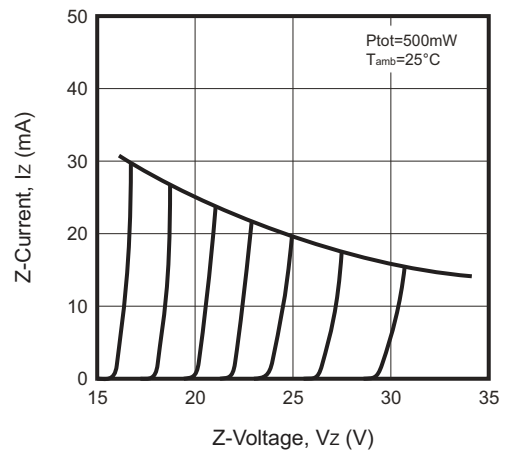
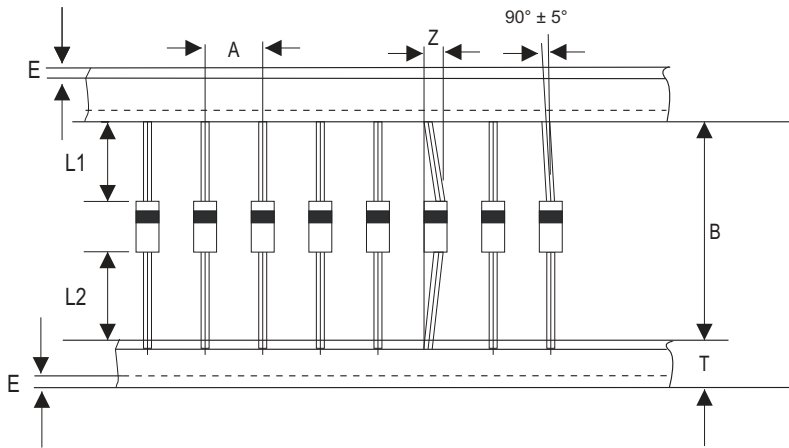


Fig.6 - Z-Current vs. Z-Voltage



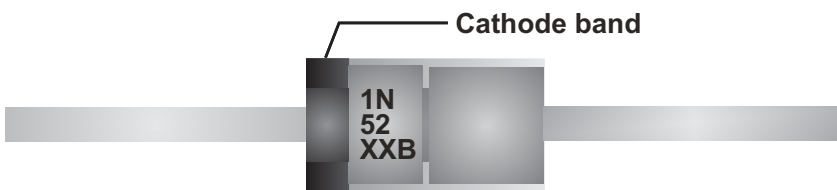
Taping Specification For Axial Lead Diodes



DO-35	SYMBOL	A	B	Z	T	E	L1-L2
	(mm)	5.00 ± 0.5	52.40 ± 1.5	1.60 (max)	6.00 ± 0.4	3.00 (max)	1.00 (max)
	(inch)	0.197 ± 0.020	2.063 ± 0.059	0.063 (max)	0.236 ± 0.016	0.118 (max)	0.039 (max)

Marking Code

Part Number	Marking Code
1N5221-G ~ 1N5267-G	1N52XXB



XX : Product type marking code (see page.4)

Standard Packaging

Case Type	AMMO PACK	
	BOX (pcs)	CARTON (pcs)
DO-35	5,000	100,000

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