

Comchip 1N5221B-G 1N5267B-G Zener Diode Datasheet

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Features

- Planar Die Construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes

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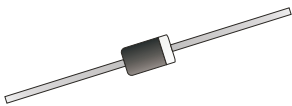
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1N5221B-G Thru. 1N5267B-G

Voltage: 2.4 to 75 Volts

Power: 0.5 Watts

RoHS Device

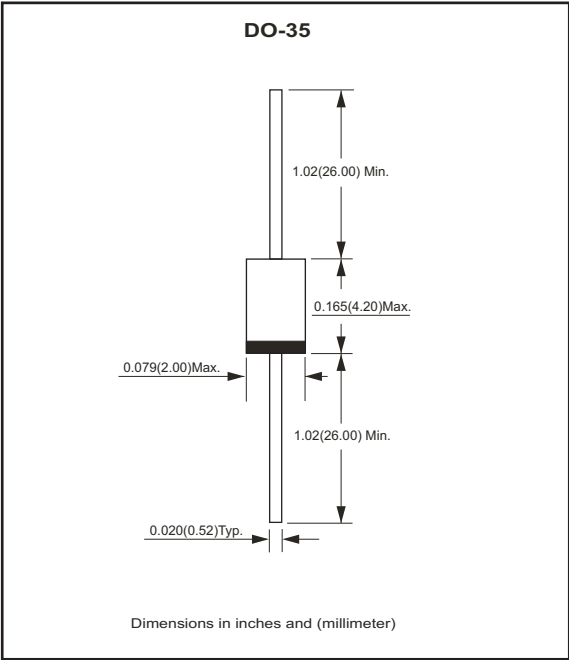


Features

- Planar Die Construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes

Mechanical data

- Case: Molded plastic, DO-35
- Terminals : Solderable per MIL-STD-750,Method Method 2026
- Polarity: Indicated by cathode band
- Marking: Type number
- Weight: 0.13gram



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

Parameter	Symbol	Value	Unit
Power dissipation at Tamb=25°C	PToT	500	mW
Junction temperature	TJ	175	°C
Storage temperature range	TSTG	-65 ~ +175	°C

Valid provided that leads at a distance of 8mm from case are kept at ambient temperature.

Parameter	Symbol	Min	Max	Unit
Thermal resistance (junction to ambient air)	RθJA		0.3*	K/mW
Forward voltage at IF = 200mA	VF		1.1	V

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

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

Part No.	Nominal Zener Voltage			Maximum Zener Impedance				Maxumum Reverse Leakage Current		Marking Code
	Vz @ IzT			ZzT @ IzT		Zzk @ Izk		IR @ VR		
	Nom.V	Min.V	Max.V	Ω	mA	Ω	mA	μA	V	
1N5221B-G	2.4	2.28	2.52	30	20	1200	0.25	100	1	1N5221B
1N5222B-G	2.5	2.38	2.63	30	20	1250	0.25	100	1	1N5222B
1N5223B-G	2.7	2.57	2.84	30	20	1300	0.25	75	1	1N5223B
1N5224B-G	2.8	2.66	2.94	30	20	1400	0.25	75	1	1N5224B
1N5225B-G	3.0	2.85	3.15	29	20	1600	0.25	50	1	1N5225B
1N5226B-G	3.3	3.14	3.47	28	20	1600	0.25	25	1	1N5226B
1N5227B-G	3.6	3.42	3.78	24	20	1700	0.25	15	1	1N5227B
1N5228B-G	3.9	3.71	4.10	23	20	1900	0.25	10	1	1N5228B
1N5229B-G	4.3	4.09	4.52	22	20	2000	0.25	5	1	1N5229B
1N5230B-G	4.7	4.47	4.94	19	20	1900	0.25	5	2	1N5230B
1N5231B-G	5.1	4.85	5.36	17	20	1600	0.25	5	2	1N5231B
1N5232B-G	5.6	5.32	5.88	11	20	1600	0.25	5	3	1N5232B
1N5233B-G	6.0	5.70	6.30	7	20	1600	0.25	5	3.5	1N5233B
1N5234B-G	6.2	5.89	6.51	7	20	1000	0.25	5	4	1N5234B
1N5235B-G	6.8	6.46	7.14	5	20	750	0.25	3	5	1N5235B
1N5236B-G	7.5	7.13	7.88	6	20	500	0.25	3	6	1N5236B
1N5237B-G	8.2	7.79	8.61	8	20	500	0.25	3	6.5	1N5237B
1N5238B-G	8.7	8.27	9.14	8	20	600	0.25	3	6.5	1N5238B
1N5239B-G	9.1	8.65	9.56	10	20	600	0.25	3	7	1N5239B
1N5240B-G	10	9.50	10.50	17	20	600	0.25	3	8	1N5240B
1N5241B-G	11	10.45	11.55	22	20	600	0.25	2	8.4	1N5241B
1N5242B-G	12	11.40	12.60	30	20	600	0.25	1	9.1	1N5242B
1N5243B-G	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9	1N5243B
1N5244B-G	14	13.30	14.70	15	9	600	0.25	0.1	10	1N5244B
1N5245B-G	15	14.25	15.75	16	8.5	600	0.25	0.1	11	1N5245B
1N5246B-G	16	15.20	16.80	17	7.8	600	0.25	0.1	12	1N5246B
1N5247B-G	17	16.15	17.85	19	7.4	600	0.25	0.1	13	1N5247B
1N5248B-G	18	17.10	18.90	21	7	600	0.25	0.1	14	1N5248B
1N5249B-G	19	18.05	19.95	23	6.6	600	0.25	0.1	14	1N5249B
1N5250B-G	20	19.00	21.00	25	6.2	600	0.25	0.1	15	1N5250B
1N5251B-G	22	20.90	23.10	29	5.6	600	0.25	0.1	17	1N5251B
1N5252B-G	24	22.80	25.20	33	5.2	600	0.25	0.1	18	1N5252B
1N5253B-G	25	23.75	26.25	35	5	600	0.25	0.1	19	1N5253B
1N5254B-G	27	25.65	28.35	41	4.6	600	0.25	0.1	21	1N5254B
1N5255B-G	28	26.60	29.40	44	4.5	600	0.25	0.1	21	1N5255B
1N5256B-G	30	28.50	31.50	49	4.2	600	0.25	0.1	23	1N5256B
1N5257B-G	33	31.35	34.65	58	3.8	700	0.25	0.1	25	1N5257B
1N5258B-G	36	34.20	37.80	70	3.4	700	0.25	0.1	27	1N5258B
1N5259B-G	39	37.05	40.95	80	3.2	800	0.25	0.1	30	1N5259B
1N5260B-G	43	40.85	45.15	93	3	900	0.25	0.1	33	1N5260B
1N5261B-G	47	44.65	49.35	105	2.7	1000	0.25	0.1	36	1N5261B
1N5262B-G	51	48.45	53.55	125	2.5	1100	0.25	0.1	39	1N5262B
1N5263B-G	56	53.20	58.80	150	2.2	1300	0.25	0.1	43	1N5263B
1N5264B-G	60	57.00	63.00	170	2.1	1400	0.25	0.1	46	1N5264B
1N5265B-G	62	58.90	65.10	185	2	1400	0.25	0.1	47	1N5265B
1N5266B-G	68	64.60	71.40	230	1.8	1600	0.25	0.1	52	1N5266B
1N5267B-G	75	71.25	78.75	270	1.7	1700	0.25	0.1	56	1N5267B

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

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

Fig.1- Power Derating Curve

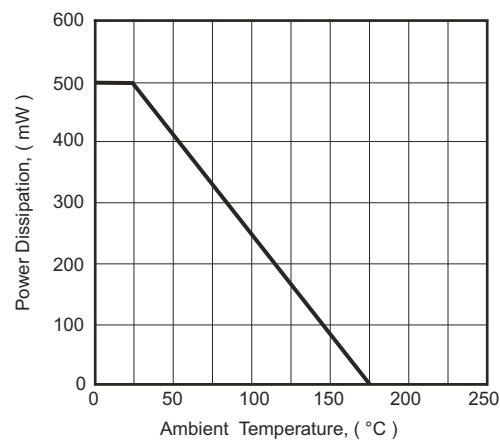
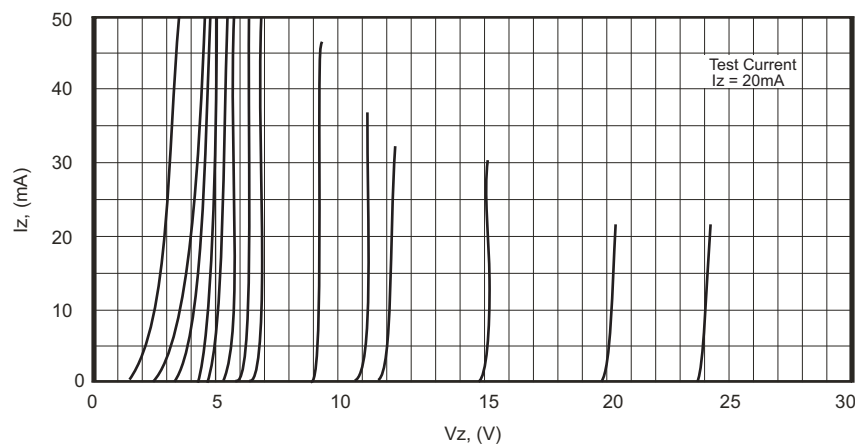
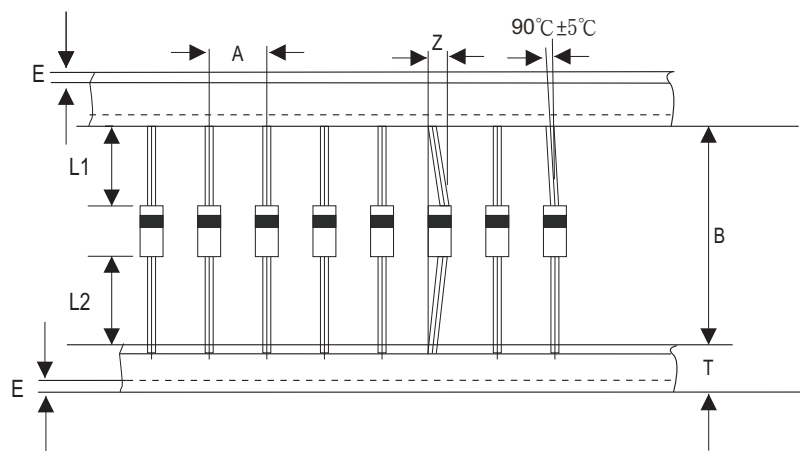


Fig.2 - Breakdown Characteristics



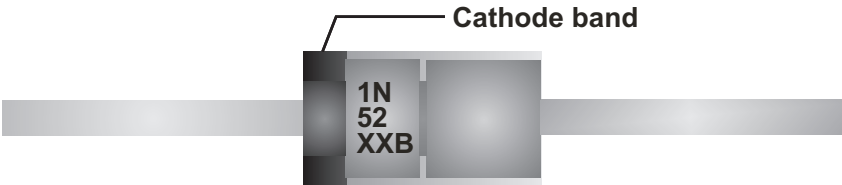
Taping Specification For Axial Lead Diodes



DO-35	SYMBOL	A	B	Z	T	E	L1-L2
	(mm)	5.00 ± 0.5	52.0 ± 1.5	1.2 (max)	6.0 ± 0.4	0.8 (max)	1.0 (max)
	(inch)	0.197± 0.020	2.047 ± 0.059	0.047 (max)	0.236 ± 0.016	0.032(max)	0.039 (max)

Marking Code

Part Number	Marking Code
1N5221-G ~ 1N5267-G	1N50XXB



XX : Product type marking code (see page.2)

Standard Packaging

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