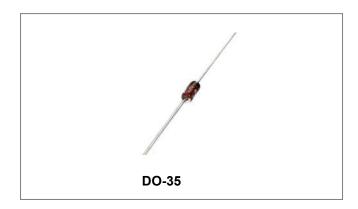






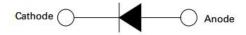
1N5225 THRU 1N5267 ZENER DIODES



Features

- Silicon Planar Power Zener Diodes
- Standard Zener voltage tolerance is ± 5% with a "B" suffix.
- Other tolerances are available upon request.
- These diodes are also available in Mini-MELF case with the type designation ZMM5225 ... ZMM5267, SOT-23 case with the type designation MMBZ5265 ... MMBZ5267 and SOD-23 case with the types designation MMSZ5225 ... MMSZ5267.
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: DO-35 Glass Case
- Terminals: Plated axial leads, solderable per LIL-STD 750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: approx. 0.14 grams

Maximum Ratings@T_A=25°C unless otherwise specified

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	P _D	500	mW
Forward Voltage @ I _F = 200mA	V _F	1.1	V
Typical Thermal resistance junction to Ambient Air (Note 1)	R _{0JA}	3000	°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-65 to 200	°C

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 8mm from case

Ordering Information

Device	Package	Shipping
1N5225-1N5267	DO-35 (Pb-Free)	5000pcs / tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



1N5252 = Part Name

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Electrical Characteristics @T_A=25°C unless otherwise specified

	Nominal	5255.02 Set	Maximum Zener impedance ⁽¹⁾		Typical	Maximum Reverse Leakage Current		Maximum
	Zener Voltage ⁽³⁾ at Izт	Test Current Izt (mA)	at	at I _{ZK=0.25m} A	Temperature Coefficient	Reverse Lear	Test Voltage	Regulator Current ⁽²⁾
Туре	Vz (V)		I _{ZT} Z _{ZT} (Ω)	Zzκ (Ω)	α vz (% / K)	I _R (μ A)	V _R (V)	I _{ZM} (mA)
1N5225	3.0	20	29	1600	- 0.075	50	1.0	152
1N5226	3.3	20	28	1600	-0.070	25	1.0	138
1N5227	3.6	20	24	1700	-0.065	15	1.0	126
1N5228	3.9	20	23	1900	-0.060	10	1.0	115
1N5229	4.3	20	22	2000	-0.055	5.0	1.0	106
1N5230	4.7	20	19	1900	±0.030	5.0	2.0	97
1N5231	5.1	20	17	1600	±0.030	5.0	2.0	89
1N5232	5.6	20	11	1600	+0.038	5.0	3.0	81
1N5233	6.0	20	7	1600	+0.038	5.0	3.5	76
1N5234	6.2	20	7	1000	+0.045	5.0	4.0	73
1N5235	6.8	20	5	750	+0.050	3.0	5.0	67
1N5236	7.5	20	6	500	+0.058	3.0	6.0	61
1N5237	8.2	20	8	500	+0.062	3.0	6.5	55
1N5238	8.7	20	8	600	+0.065	3.0	6.5	52
1N5239	9.1	20	10	600	+0.068	3.0	7.0	50
1N5240	10	20	17	600	+0.075	3.0	8.0	45
1N5241	11	20	22	600	+0.076	2.0	8.4	41
1N5242	12	20	30	600	+0.077	1.0	9.1	38
1N5243	13	9.5	13	600	+0.079	0.5	9.9	35
1N5244	14	9.0	15	600	+0.082	0.1	10	32
1N5245	15	8.5	16	600	+0.082	0.1	11	30
1N5246	16	7.8	17	600	+0.083	0.1	12	28
1N5247	17	7.4	19	600	+0.084	0.1	13	27
1N5248	18	7.0	21	600	+0.085	0.1	14	25
1N5249	19	6.6	23	600	+0.086	0.1	14	24
1N5250	20	6.2	25	600	+0.086	0.1	15	23
1N5251	22	5.6	29	600	+0.087	0.1	17	21
1N5252	24	5.2	33	600	+0.087	0.1	18	19.1
1N5253	25	5.0	35	600	+0.089	0.1	19	18.2
1N5254	27	4.6	41	600	+0.090	0.1	21	16.8
1N5255	28	4.5	44	600	+0.091	0.1	21	16.2
1N5256	30	4.2	49	600	+0.091	0.1	23	15.1
1N5257	33	3.8	58	700	+0.092	0.1	25	13.8
1N5258	36	3.4	70	700	+0.093	0.1	27	12.6
1N5259	39	3.2	80	800	+0.094	0.1	30	11.6
1N5260	43	3.0	93	900	+0.095	0.1	33	10.6
1N5261	47	2.7	105	1000	+0.095	0.1	36	9.7
1N5262	51	2.5	125	1100	+0.096	0.1	39	8.9
1N5263	56	2.2	150	1300	+0.096	0.1	43	922
1N5264	60	2.1	170	1400	+0.097	0.1	46	8 7
1N5265	62	2.0	185	1400	+0.097	0.1	47	:
1N5266	68	1.8	230	1600	+0.097	0.1	52	-
1N5267	75	1.7	270	1700	+0.098	0.1	56	10-20

Note: (1) The Zener impedance is derived from the 1 kHz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (IZT or IZK) is superimposed on IZT or IZK. Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units

⁽²⁾ Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature

⁽³⁾ Measured with device junction in thermal equilibrium

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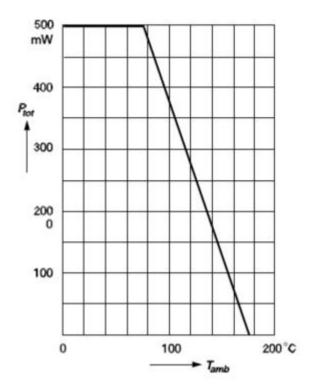




Ratings and Characteristics Curves

Admissible power dissipation versus ambient temperature

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

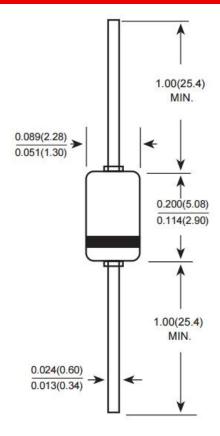




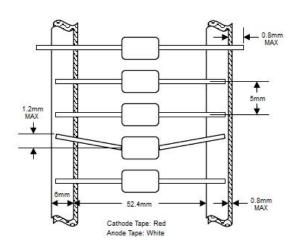




Mechanical Dimensions DO-35(Inches/Millimeters)



Carrier Tape Specification DO-35



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