

3459325 FAGOR ELECTRONICS

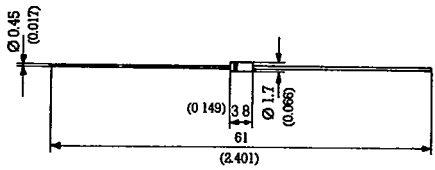


98D 00159 D

1N5221 1N5257

Y-11-11

0.5 W Zener Diodes

<p>Dimensions in mm. (inches)</p> <p>DO-35 (Glass)</p>  <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 2 mm. 2. Max. solder temperature, 300°C. 3. Max. soldering time, 3 sec. 4. Do not bend lead at a point closer than 1,5 mm. to the body. 	<p>Voltage 2.4 to 33 V.</p> <p>Power 0.5 W</p> <p>Standard Voltage Tolerance is $\pm 20\%$ Add Suffix "A" for $\pm 10\%$ Tolerance and Suffix "B" for $\pm 5\%$</p> <ul style="list-style-type: none"> • Low cost • DO-35 Glass case • Terminals: Axial Leads • Polarity: Color band denotes cathode
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Datasheet Directory

Maximum Ratings, according to IEC publication No. 134

P_{tot}	Power dissipation at $T_{amb} = 25^\circ C$	500 mW
P_{ZSM}	Non repetitive peak zener dissipation ($T_j = 25^\circ C, t = 1\ ms$)	12 W
T_j	Max. operating temperature	175°C
T_{stg}	Storage temperature range	- 50°C to + 175°C

Electrical Characteristics at $T_{amb} = 25^\circ C$

V_F	Max. forward voltage drop at $I_F = 200\ mA$	1,2 V
R_{th-a}	Max. thermal resistance at: 8 mm. lead length	0,30°C/mW

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Type	Nominal Zener Voltage V_z at I_{zT}	Test Current I_{zT}	Maximum Zener Impedance		Typical Temperature Coefficient (%/°C)	Maximum Reverse Leakage Current			Maximum Regulator Current I_{zM}
			Z_{zT} at I_{zT}	Z_{zT} at $I_{zT} = 0.25$ mA		I_R	Suffix A	Suffix B	
	(V)	(mA)	(Ω)	(Ω)	(%/°C)	(μ A)	(V)	(V)	(mA)
1N5221	2.4	20	30	1200	-0.085	100	0.95	1.0	191
1N5222	2.5	20	30	1250	-0.085	100	0.95	1.0	182
1N5223	2.7	20	30	1300	-0.080	75	0.95	1.0	168
1N5224	2.8	20	30	1400	-0.080	75	0.95	1.0	162
1N5225	3.0	20	29	1600	-0.075	50	0.95	1.0	151
1N5226	3.3	20	28	1600	-0.070	25	0.95	1.0	138
1N5227	3.6	20	24	1700	-0.065	15	0.95	1.0	126
1N5228	3.9	20	23	1900	-0.060	10	0.95	1.0	116
1N5229	4.3	20	22	2000	± 0.055	5	0.95	1.0	106
1N5230	4.7	20	19	1900	± 0.030	5	1.9	2.0	97
1N5231	5.1	20	17	1600	± 0.030	5	1.9	2.0	89
1N5232	5.6	20	11	1600	+0.038	5	2.9	3.0	81
1N5233	6.0	20	7	1600	+0.038	5	3.3	3.5	76
1N5234	6.2	20	7	1000	+0.045	5	3.8	4.0	73
1N5235	6.8	20	5	750	+0.050	3	4.8	5.0	67
1N5236	7.5	20	6	500	+0.058	3	5.7	6.0	61
1N5237	8.2	20	8	500	+0.062	3	6.2	6.5	55
1N5238	8.7	20	8	600	+0.065	3	6.2	6.5	52
1N5239	9.1	20	10	600	+0.068	3	6.7	7.0	50
1N5240	10	20	17	600	+0.075	3	7.6	8.0	45
1N5241	11	20	22	600	+0.076	2	8.0	8.4	41
1N5242	12	20	30	600	+0.077	1	8.7	9.1	38
1N5243	13	9.5	13	600	+0.079	0.5	9.4	9.9	35
1N5244	14	9.0	15	600	+0.082	0.1	9.5	10	32
1N5245	15	8.5	16	600	+0.082	0.1	10.5	11	30
1N5246	16	7.8	17	600	+0.083	0.1	11.4	12	28
1N5247	17	7.4	19	600	+0.084	0.1	12.4	13	27
1N5248	18	7.0	21	600	+0.085	0.1	13.3	14	25
1N5249	19	6.6	23	600	+0.086	0.1	13.3	14	24
1N5250	20	6.2	25	600	+0.086	0.1	14.3	15	23
1N5251	22	5.6	29	600	+0.087	0.1	16.2	17	21
1N5252	24	5.2	33	600	+0.087	0.1	17.1	18	19.1
1N5253	25	5.0	35	600	+0.089	0.1	18.1	19	18.2
1N5254	27	4.6	41	600	+0.090	0.1	20	21	16.8
1N5255	28	4.5	44	600	+0.091	0.1	20	21	16.2
1N5256	30	4.2	49	600	+0.091	0.1	22	23	15.1
1N5257	33	3.8	58	700	+0.092	0.1	24	25	13.8



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Characteristic Curves

1N5221

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