

# Zener Diodes. 0,4 W.

**1N751 Series. 400 mW Glass Zener Diodes in DO-35 Package (T<sub>A</sub> = 25 °C). Outline: 5**

Type	Nominal Zener Voltage V <sub>Z</sub> at I <sub>ZT</sub>	Maximum Zener Impedance Z <sub>ZT</sub> at I <sub>ZT</sub>	Test Current I <sub>ZT</sub>	Typical Temperature Coefficient	Maximum Reverse Leakage Current I <sub>R</sub> at V <sub>R</sub> = 1 V		Maximum Regulator Current I <sub>ZM</sub>
					T <sub>A</sub> = 25 °C	T <sub>A</sub> = 150 °C	
					(V)	(Ω)	
1N751	5.1	17	20	-0.008	1	20	70
1N752	5.6	11	20	+0.006	1	20	65
1N753	6.2	7	20	+0.022	0.1	20	60
1N754	6.8	5	20	+0.035	0.1	20	55
1N755	7.5	6	20	+0.045	0.1	20	50
1N756	8.2	8	20	+0.052	0.1	20	45
1N757	9.1	10	20	+0.056	0.1	20	40
1N758	10.0	17	20	+0.060	0.1	20	35
1N759	12.0	30	20	+0.060	0.1	20	30

Standard Voltage Tolerance is ± 10%. Add Suffix "A" for 5% Tolerance.  
Other Tolerances, Non-Standard Zener Voltages Upon Request.

**1N957 Series. 400 mW Glass Zener Diodes in DO-35 Package (T<sub>A</sub> = 25 °C). Outline: 5**

Type	Nominal Zener Voltage V <sub>Z</sub> at I <sub>ZT</sub>	Test Current I <sub>ZT</sub>	Maximum Zener Impedance			Typical Temperature Coefficient	Maximum Reverse Leakage Current			Maximum Regulator Current I <sub>ZM</sub>
			Z <sub>ZT</sub> at I <sub>ZT</sub>	Z <sub>ZK</sub> at I <sub>ZK</sub>	I <sub>ZK</sub>		I <sub>R</sub>	Test-Voltage		
			(V)	(mA)	(Ω)		(Ω)	(mA)	(%/°C)	
1N957	6.8	18.5	4.5	700	1.0	+0.050	150	4.9	5.2	47
1N958	7.5	16.5	5.5	700	0.5	+0.058	75	5.4	5.7	42
1N959	8.2	15	6.5	700	0.5	+0.062	50	5.9	6.2	38
1N960	9.1	14	7.5	700	0.5	+0.068	25	6.6	6.9	35
1N961	10	12.5	8.5	700	0.25	+0.075	10	7.2	7.6	32
1N962	11	11.5	9.5	700	0.25	+0.076	5	8.0	8.4	28
1N963	12	10.5	11.5	700	0.25	+0.077	5	8.6	9.1	26
1N964	13	9.5	13	700	0.25	+0.079	5	9.4	9.9	24
1N965	15	8.5	16	700	0.25	+0.082	5	10.8	11.4	21
1N966	16	7.8	17	700	0.25	+0.083	5	11.5	12.2	19
1N967	18	7.0	21	750	0.25	+0.085	5	13.0	13.7	17
1N968	20	6.2	25	750	0.25	+0.086	5	14.4	15.2	15
1N969	22	5.6	29	750	0.25	+0.087	5	15.8	16.7	14
1N970	24	5.2	33	750	0.25	+0.088	5	17.3	18.2	13
1N971	27	4.6	41	750	0.25	+0.090	5	19.4	20.6	11
1N972	30	4.2	49	1000	0.25	+0.091	5	21.6	22.8	10
1N973	33	3.8	58	1000	0.25	+0.092	5	23.8	25.1	9.2

Standard Voltage Tolerance is ±20%. Add Suffix "A" for ±10% Tolerance and Suffix "B" for ±5% Tolerance.  
Other Tolerances, Non-Standard Zener Voltages Upon Request.

# Zener Diodes. 0,5 W.

1N5221 Series. Glass Zener Diodes in DO-35 Package ( $T_A = 25^\circ\text{C}$ ). Outline: 5

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 $I_{ZT}$	$Z_{ZK}$ at $I_{ZK} = 0.25$ mA		$I_R$	Test-Voltage Suffix A	Test-Voltage Suffix B	
	(V)	(mA)	( $\Omega$ )	( $\Omega$ )	(%/°C)	( $\mu\text{A}$ )	(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	115
1N5229	4.3	20	22	2000	$\pm 0.055$	5	0.95	1.0	106
1N5230	4.7	20	19	1900	$\pm 0.030$	5	1.9	2.0	97
1N5231	5.1	20	17	1600	$\pm 0.030$	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

Standard Voltage Tolerance is  $\pm 20\%$ . Add Suffix "A" for  $\pm 10\%$  Tolerance and Suffix "B" for  $\pm 5\%$  Tolerance  
Other Tolerances, Non-Standard Zener Voltages Upon Request.

## Zener Diodes. 1 W.

**1N4728 Series Glass Zener Diodes in DO-41 Package (T<sub>A</sub> = 25°C). Outline: 6**

Type	Nominal Zener Voltage V <sub>Z</sub> at I <sub>ZT</sub>	Test Current I <sub>ZT</sub>	Maximum Zener Impedance			Maximum Reverse Leakage Current		Max. Surge Current 8.3 ms I <sub>ZS</sub>	Maximum Regulator Current I <sub>ZM</sub>
			Z <sub>ZT</sub> at I <sub>ZT</sub>	Z <sub>ZK</sub> at I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	at V <sub>R</sub>		
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mA)
1N4728	3.3	76	10	400	1.0	100	1	1375	276
1N4729	3.6	69	10	400	1.0	100	1	1260	252
1N4730	3.9	64	9	400	1.0	50	1	1190	234
1N4731	4.3	58	9	400	1.0	10	1	1070	217
1N4732	4.7	53	8	500	1.0	10	1	970	193
1N4733	5.1	49	7	550	1.0	10	1	890	178
1N4734	5.6	45	5	600	1.0	10	2	810	162
1N4735	6.2	41	2	700	1.0	10	3	730	146
1N4736	6.8	37	3.5	700	1.0	10	4	660	133
1N4737	7.5	34	4	700	0.5	10	5	605	121
1N4738	8.2	31	4.5	700	0.5	10	6	550	110
1N4739	9.1	28	5	700	0.5	10	7	500	100
1N4740	10	25	7	700	0.25	10	7.6	454	91
1N4741	11	23	8	700	0.25	5	8.4	414	83
1N4742	12	21	9	700	0.25	5	9.1	380	76
1N4743	13	19	10	700	0.25	5	9.9	344	69
1N4744	15	17	14	700	0.25	5	11.4	304	61
1N4745	16	15.5	16	700	0.25	5	12.2	285	57
1N4746	18	14	20	750	0.25	5	13.7	250	50
1N4747	20	12.5	22	750	0.25	5	15.2	225	45
1N4748	22	11.5	23	750	0.25	5	16.7	205	41
1N4749	24	10.5	25	750	0.25	5	18.2	190	38
1N4750	27	9.5	35	750	0.25	5	20.6	170	34
1N4751	30	8.5	40	1000	0.25	5	22.8	150	30
1N4752	33	7.5	45	1000	0.25	5	25.1	135	27

Standard Voltage Tolerance is ± 10%. Add Suffix "A" for ± 5% Tolerance.  
Other Tolerances, Non-Standard Zener Voltages Upon Request.

## Zener Diodes. 5 W.

The plastic material carries U/L recognition 94V-O.

OPERATING AND STORAGE TEMPERATURE - 50 to + 150 °C.

**1N5345 Series. 5 Watt Zener Diode in Plastic Case (T<sub>A</sub> = 25 °C).**

Type	Nominal Zener Voltage V <sub>Z</sub> at I <sub>ZT</sub>	Test Current I <sub>ZT</sub>	Maximum Zener Impedance for A & B Suffix only			Maximum Reverse Leakage Current Test Voltage			Max. Surge Current 8.3 ms. I <sub>ZS</sub>	Maximum Regulator Current I <sub>ZM</sub>
			Z <sub>ZT</sub> at I <sub>ZT</sub>	Z <sub>ZK</sub> at I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	Suffix A & non Suffix	Suffix B		
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(V)	(A)	(mA)
1N5345	8.7	150	2.0	200	1	10	6.3	6.6	9.5	545
1N5346	9.1	150	2.0	150	1	7.5	6.6	6.9	9.2	520
1N5347	10	125	2.0	125	1	5.0	7.2	7.6	8.6	475
1N5348	11	125	2.5	125	1	5.0	8.0	8.4	8.0	430
1N5349	12	100	2.5	125	1	2.0	8.6	9.1	7.5	395
1N5350	13	100	2.5	100	1	1.0	9.4	9.9	7.0	365
1N5351	14	100	2.5	75	1	1.0	10.1	10.6	6.7	340
1N5352	15	75	2.5	75	1	1.0	10.8	11.5	6.3	315
1N5353	16	75	2.5	75	1	1.0	11.5	12.2	6.0	295
1N5354	17	70	2.5	75	1	0.5	12.2	12.9	5.8	280
1N5355	18	65	2.5	75	1	0.5	13.0	13.7	5.5	264
1N5356	19	65	3.0	75	1	0.5	13.7	14.4	5.3	250
1N5357	20	65	3.0	75	1	0.5	14.4	15.2	5.1	237
1N5358	22	50	3.5	75	1	0.5	15.8	16.7	4.7	216
1N5359	24	50	3.5	100	1	0.5	17.3	18.2	4.4	198
1N5360	25	50	4.0	110	1	0.5	18.0	19.0	4.3	190
1N5361	27	50	5.0	120	1	0.5	19.4	20.6	4.1	176
1N5362	28	50	6.0	130	1	0.5	20.1	21.2	3.9	170
1N5363	30	40	8.0	140	1	0.5	21.6	22.8	3.7	158
1N5364	33	40	10	150	1	0.5	23.8	25.1	3.5	144

Standard Voltage Tolerance is ± 20%. Add Suffix "A" for ± 10% Tolerance and Suffix "B" for ± 5% Tolerance.  
Other Tolerance, Non-Standard Zener Voltages Upon Request.