

# Zener Diodes Semiconductor Identification

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## Zener Diode Information

Zener diodes are diodes that have a specified voltage drop when in reverse bias. Some useful facts about zener diodes are:

1. Zener diodes can range from 2.4V to 200V and 1/4W to 50W.
  2. Some applications for zener diodes are voltage references, voltage regulators, transient protection, and RF clamps.
  3. Zener diodes rated at over 1W usually come in stud mount packages. They also can have heat sinks to dissipate heat away from the junction.
  4. To identify a zener diode one must read the value off the component or find the [part number or the manufacturers number](#).
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**Zener Diodes**

VOLTS	POWER(Watts)							
	0.25	0.4	0.5	1.0	1.5	5.0	10.0	50.0
1.8	1N4614	-	-	-	-	-	-	-
2.0	1N4615	-	-	-	-	-	-	-
2.4	1N4617	1N4370, A	1N4370, A	-	-	-	-	-
	-	-	1N5221, B	-	-	-	-	-
	-	-	1N5985, B	-	-	-	-	-
2.5	-	-	1N5222B	-	-	-	-	-
2.6	1N702, A	-	-	-	-	-	-	-
2.7	1N4618	1N4371, A	1N4371, A	-	-	-	-	-
	-	-	1N5223, B	-	-	-	-	-
	-	-	1N5839	-	-	-	-	-
	-	-	1N5986	-	-	-	-	-
	-	-	1N5224, B	-	-	-	-	-
2.8	-	-	1N5224B	-	-	-	-	-
3.0	1N4619	1N4372, A	1N4372, A	-	-	-	-	-
	-	-	1N5225, B	-	-	-	-	-

	-	-	1N5987, B	-	-	-	-	-
<b>3.3</b>	1N4620	1N746, A	1N746, A	1N3821	1N5913	1N5333, B	-	-
	-	1N764, A	1N5226, B	1N4728, A	-	-	-	-
	-	1N5518	1N5988	-	-	-	-	-
<b>3.6</b>	1N4621	1N747, A	1N747, A	1N3822	1N5914	1N5334, B	-	-
	-	1N5519	1N5227, B	1N4729, A	-	-	-	-
	-	-	1N5989	-	-	-	-	-
<b>3.9</b>	1N4622	1N748, A	1N748A	1N3823	1N5915	1N5335, B	1N3993A	1N4549, B
	-	1N5520	1N5228, B	1N4730, A	-	-	-	1N4557, B
	-	-	1N5844	-	-	-	-	-
	-	-	1N5590	-	-	-	-	-
<b>4.1</b>	1N704, A	-	-	-	-	-	-	-
<b>4.3</b>	1N4623	1N749, A	1N749, A	1N3824	1N7916	1N5336, B	1N3994, A	1N4558, B
	-	1N5521	1N5229, B	1N4731, A	-	-	-	1N4558, B
	-	-	1N5845	-	-	-	-	-
	-	-	1N5991	-	-	-	-	-
<b>4.7</b>	1N4624	1N750, A	1N750A	1N3825	1N5917	1N5337, B	1N3995, A	1N4551, B
	-	1N5522	1N5230, B	1N4732, A	-	-	-	1N4559, B
	-	-	1N5846	-	-	-	-	-
	-	-	1N5922	-	-	-	-	-
<b>5.1</b>	1N4625	1N751, A	1N751, A	1N3826	1N5981	1N5338, B	1N3996, A	1N4552, B
	1N4689	1N5523	1N5231, B	1N4733	-	-	-	1N4560, B
	-	-	1N5847	-	-	-	-	-
	-	-	1N5593	-	-	-	-	-
<b>5.6</b>	1N708A	1N725, A	1N752, A	1N3827	1N5919	1N5339, B	1N3997, A	1N4553, B
	1N4626	1N5524	1N5232, B	1N4734, A	-	-	-	1N4561, B
	-	-	1N5848	-	-	-	-	-
	-	-	1N5994	-	-	-	-	-
<b>5.8</b>	1N706A	1N762	-	-	-	-	-	-
<b>6.0</b>	-	-	1N5233B	-	-	1N5340, B	-	-
	-	-	1N5849	-	-	-	-	-
<b>6.2</b>	1N709	1N753, A	1N753, A	1N3828, A	1N5920	1N5341, B	1N3998, A	1N4554, B
	1N4627	1N821, A	1N5324, B	1N4735, A	-	-	-	1N4562, B
	MZ605	1N823, A	1N5850	-	-	-	-	-
	MZ610	1N825, A	1N5995	-	-	-	-	-
	MZ620	1N827, A	-	-	-	-	-	-
	MZ640	1N829, A	-	-	-	-	-	-
<b>6.4</b>	1N4565-84, A	-	-	-	-	-	-	-
<b>6.8</b>	1N4099	1N754, A	1N754, A	1N3016, B	1N3785	1N5342, B	1N2970, B	1N2804B
	-	1N754, B	1N757, B	1N3829	1N5921	-	1N3999, A	1N3305B
	-	1N5526	1N5235, B	1N4736, A	-	-	-	1N4555
	-	-	1N5851	-	-	-	-	1N4563
	-	-	1N5996	-	-	-	-	-
<b>7.5</b>	1N4100	1N755, A	1N755, A	1N3017A, B	1N3786	1N5343, B	1N2971, B	1N2805B
	-	1N755, B	1N758, B	1N3830	1N5922	-	1N4000, A	1N3306B
	-	1N5527	1N5236, B	1N4737, A	-	-	-	1N4556
	-	-	1N5852	-	-	-	-	1N4564
	-	-	1N5997	-	-	-	-	-
<b>8.0</b>	1N707A	-	-	-	-	-	-	-
<b>8.2</b>	1N712A	1N756, A	1N756, A	1N3018, B	1N3787	1N5344, B	1N2972, B	1N2806, B
	1N4101	1N959, B	1N959, B	1N4738, A	1N5923	-	-	1N3307, B
	-	1N5528	1N5237, B	-	-	-	-	-
	-	-	1N5853	-	-	-	-	-
	-	-	1N5998	-	-	-	-	-
<b>8.4</b>	-	1N3514-57, A	1N3154, A	-	-	-	-	-
	-	-	1N3155, 57	-	-	-	-	-
<b>8.5</b>	1N4775-84, A	-	1N5238, B	-	-	-	-	-
	-	-	1N5854	-	-	-	-	-
<b>8.7</b>	1N4102	-	-	-	-	1N5345, B	-	-
<b>8.8</b>	-	1N764	-	-	-	-	-	-
<b>9.0</b>	-	1N764A	1N935-9; A, B	-	-	-	-	-
<b>9.1</b>	1N4103	1N757, A	1N757, A	1N3019, B	1N3788	1N5346, B	1N2973, B	1N2807, B
	-	1N960, B	1N960, B	1N4739, A	1N5924	-	-	1N3308, B

	-	1N5529	1N5239, B	-	-	-	-	-
	-	-	1N5855	-	-	-	-	-
	-	-	1N5999	-	-	-	-	-
<b>10.0</b>	1N4104	1N758, A	1N758, A	1N3020, B	1N3789	1N5347, B	1N2974, B	1N2808, B
	-	1N961, B	1N961, B	1N4740, A	1N5925	-	-	1N3309, B
	-	1N5530	1N5240, B	-	-	-	-	-
	-	-	1N5856	-	-	-	-	-
	-	-	1N6000	-	-	-	-	-
<b>11.0</b>	1N715, A	1N962, B	1N962, B	1N3021, B	1N3790	1N5348, B	1N2975, B	1N2809, B
	1N4105	1N961, B	1N961, B	1N4741, A	1N5926	-	-	1N3310, B
	-	1N5531	1N5241, B	-	-	-	-	-
	-	-	1N5857	-	-	-	-	-
	-	-	1N6001	-	-	-	-	-
<b>11.7</b>	1N716, A	-	1N941-4; A, B	-	-	-	-	-
	1N4106	-	-	-	-	-	-	-
<b>12.0</b>	-	1N759, A	1N759, A	1N3022, B	1N3791	1N5349, B	1N2976, B	1N2810, B
	-	1N963, B	1N963, B	1N4742, A	1N5927	-	-	1N3311, B
	-	1N5532	1N5452, B	-	-	-	-	-
	-	-	1N5858	-	-	-	-	-
	-	-	1N6002	-	-	-	-	-
<b>13.0</b>	1N4107	1N964, B	1N964, B	1N3023, B	1N3792	1N5350, B	1N2977, B	1N2811, B
	-	1N5533	1N5243, B	1N4743, A	1N5928	-	-	1N3312, B
	-	-	1N5859	-	-	-	-	-
	-	-	1N6003	-	-	-	-	-
<b>14.0</b>	1N4108	1N5534	1N5244B	-	-	1N5351, B	1N2978, B	1N2812, B
	-	-	1N5860	-	-	-	-	1N3313, B
<b>15.0</b>	1N4109	1N965, B	1N965, B	1N3024, B	1N3793	1N5352, B	1N2927, A	1N2813, A
	-	1N5535	1N5245, B	1N4744A	1N5929	1N5352, B	1N2927, B	1N2813, B
	-	-	1N5861	-	-	-	-	1N3314, B
	-	-	1N6004	-	-	-	-	-
<b>16.0</b>	1N4110	1N966, B	1N966, B	1N3025, B	1N3794	1N5353, B	1N2980, B	1N2814, B
	-	1N5536	1N5246, B	1N4745, A	1N5930	-	-	1N3315, B
	-	-	1N5862	-	-	-	-	-
	-	-	1N6005	-	-	-	-	-
<b>17.0</b>	1N4111	1N5537	1N5247, B	-	-	1N5354, B	1N2981B	1N2814, B
	-	-	1N5863	-	-	-	-	1N3316, B
<b>18.0</b>	1N4112	1N967, B	1N967, B	1N3026, B	1N3795	1N5355, B	1N2982, B	1N2816, B
	-	1N5538	1N5248, B	1N4746, A	1N5931	-	-	1N3317, B
	-	-	1N5864	-	-	-	-	-
	-	-	1N6006	-	-	-	-	-
<b>19.0</b>	1N4113	1N5539	1N5249, B	-	-	1N5356, B	1N2983B	1N2817, B
	-	-	1N5865	-	-	-	-	1N3318, B
<b>20.0</b>	1N4114	1N968, B	1N968, B	1N3027, B	1N3796	1N5357, B	1N2984, B	1N2818, B
	-	1N5540	1N5250, B	1N4747, A	1N5932, A	-	-	1N3319, B
	-	-	1N5866	-	1N5932, B	-	-	-
	-	-	1N6007	-	-	-	-	-
<b>22.0</b>	1N4115	1N959, B	1N969, B	1N3028, B	1N3797	1N5358, B	1N2985, B	1N2819, B
	-	1N5541	1N5241, B	1N4748, A	1N5933	-	-	1N3320, B
	-	-	1N5867	-	-	-	-	1N3320, A
	-	-	1N6008	-	-	-	-	-
<b>24.0</b>	1N4116	1N5542	1N970, B	1N3029, B	1N3798	1N5359, B	1N2986, B	1N2820, B
	-	1N9701B	1N5252, B	1N4749, A	1N5934	-	-	1N3321, B
	-	-	1N586	-	-	-	-	-
	-	-	1N6009	-	-	-	-	-
<b>25.0</b>	1N4117	1N5543	1N5253, B	-	-	1N5360, B	1N2987B	1N2821, B
	-	-	1N5869	-	-	-	-	1N3322, B
<b>27.0</b>	1N4118	1N971, B	1N971, B	1N3030, B	1N3799	1N5361, B	1N2988, B	1N2822, B
	-	-	1N5254, B	1N4750, A	1N5935	-	-	1N3323, B
	-	-	1N5870	-	-	-	-	-
	-	-	1N6010	-	-	-	-	-

28.0	1N4119	1N5544	1N5255,B 1N5871	- -	- -	1N5362,B -	- -	- -
30.0	1N4120	1N972,B 1N5545	1N972,B 1N5256,B 1N5872 1N6011	1N3031,B 1N4751,A - -	1N3800 1N5936 - -	1N5363,B - - -	1N2989,B - - -	1N2823,B 1N3324,B - -
33.0	1N4121	1N973,B 1N5546	1N973,B 1N5257,B 1N5873 1N6012	1N3032,B 1N4752,A - -	1N3801 1N5937 - -	1N5364,B - - -	1N2990,B - - -	1N2824,B 1N3325,B - -
36.0	1N4122	1N974,B	1N974,B 1N5258,B 1N5874 1N6013	1N3033,B 1N4753,A - -	1N3802 1N5938 - -	1N5365,B - - -	1N2991,B - - -	1N2825,B 1N3326,B - -
39.0	1N4123	1N975,B	1N975,B 1N5259,B 1N5875 1N6014	1N3034,B 1N4754,A - -	1N3803 1N5939 - -	1N5366,B - - -	1N2992,B - - -	1N2826,B 1N3327,B - -
43.0	1N4124	1N976,B	1N976,B 1N5260,B 1N5876 1N6015	1N3035,B 1N4755,A - -	1N3804 1N5940 - -	1N5367,B - - -	1N2993,B - - -	1N2827,B 1N3328,B - -
45.0	-	-	-	-	-	-	1N2994B	1N2828B 1N3329B
47.0	1N4125	1N977,B	1N977,B 1N5261,B 1N5877 1N6016	1N3036,B 1N4756,A - -	1N3805 1N5941 - -	1N5368,B - - -	1N2996,B - - -	1N2829,B 1N3330,B - -
50.0	-	-	-	-	-	-	-	1N2830B 1N3331B
51.0	1N4126	1N978,B	1N978,B 1N5262,B 1N5878 1N6017 1N5262,A	1N3037,B 1N4757,A - - -	1N3806 1N5942 - - -	1N5369,B - - - -	1N2997,B - - - -	1N2831,B 1N3332,B - - -
52.0	-	-	-	-	-	-	1N2998B	1N3333
56.0	1N4127	1N979,B	1N979,B 1N5263,B 1N6018	1N3038,B 1N4758,A - -	1N3807 1N5943 - -	1N5370,B - - -	1N2999,B - - -	1N2822,B 1N3334,B - -
60.0	1N4128	-	1N5246,A,B	-	-	1N5371,B	-	-
62.0	1N4129	1N980,B	1N980 1N5265,B 1N5265,A 1N6019	1N3039,B 1N4759,A - -	1N3808 1N5944 - -	1N5372,B - - -	1N3000,B - - -	1N2833,B 1N3335,B - -
68.0	1N4130	1N981,B	1N981,B 1N5266,B 1N5266,A 1N6020	1N3040,B 1N4760,A 1N3040,A -	1N3809 1N5945 - -	1N5373,B - - -	1N3001,B - - -	1N2834,B 1N3336,B - -
75.0	1N4131	1N982,B	1N982 1N5267,B 1N5267,A 1N6021	1N3041,B 1N4761,A - -	1N3810 1N5946 - -	1N5374,B - - -	1N3002,B - - -	1N2835,B 1N3337,B - -
82.0	1N4132	1N983,B	1N983 1N5268,B 1N5268,A 1N6022	1N3042,B 1N4762,A - -	1N3811 1N5947 - -	1N5375,B - - -	1N3003,B - - -	1N2836,B 1N3338,B - -
87.0	1N4133	-	1N5269,B	-	-	1N5376,B	-	-
91.0	1N4134	1N984,B	1N984 1N5270,B	1N3043,B 1N4763,A	1N3812 1N5948	1N5377,B -	1N3004,B -	1N2837,B 1N3339,B

	-	-	1N6023	-	-	-	-	-
100.0	1N4135	1N985	1N985,B	1N3044,B	1N3813	1N5378,B	1N3005,B	1N2838,B
	-	-	1N5271,B	1N4764,A	1N5949	-	-	1N3340,B
	-	-	1N6024	1N3044,A	-	-	-	-
105.0	-	-	-	-	-	-	1N3006,B	1N2839,B
	-	-	-	-	-	-	-	1N3341,B
110.0	-	1N986	1N986,B	1N3045,B	1N3814	1N5379,B	1N3007,B	1N2840,B
	-	-	1N5272,B	1M110ZS10	1N5950	-	1N3007,A	1N3342,B
	-	-	1N6025	-	-	-	-	-
120.0	-	1N987	1N987,B	1N3046,B	1N3815	1N5380,B	1N3008,B	1N2841,B
	-	-	1N5273,B	1M120ZS10	1N5951	-	1N3008,A	1N3343,B
	-	-	1N6026	-	-	-	-	-
130.0	-	1N988	1N988,B	1N3047,B	1N3816	1N5381,B	1N3009,B	1N2842,B
	-	-	1N5274,B	1M130ZS10	1N5952	-	-	1N3344,B
	-	-	1N6027	-	-	-	-	-
140.0	-	1N989	1N5275,B	-	-	1N5382B	1N3010B	1N3345B
150.0	-	1N990	1N989	1N3048,B	1N3817	1N5383,B	1N3011,B	1N2843,B
	-	-	1N5276,B	1M150ZS10	1N5953	-	-	1N3346,B
	-	-	1N6028	-	-	-	-	-
160.0	-	1N991	1N990	1N3049,B	1N3818	1N5384,B	1N3012,B	1N2844,B
	-	-	1N5277,B	1M160ZS10	1N5954	-	-	1N3347,B
	-	-	1N6029	-	-	-	-	-
170.0	-	1N992	1N5278,B	1M170ZS10	-	1N5385,B	-	-
175.0	-	-	-	-	-	-	1N3013B	1N3348B
180.0	-	-	1N991,B	1N3050,B	1N3819	1N5386,B	1N3014,B	1N2845,B
	-	-	1N5279,B	1M180ZS10	1N5955	-	-	1N3349,B
	-	-	1N6030	1N3050,A	-	-	-	-
190.0	-	-	1N5280,B	-	-	1N5387,B	-	-
200.0	-	-	1N992	1N3051,B	1N3820	1N5388,B	1N3015,B	1N2846,B
	-	-	1N5281,B	1M200ZS10	1N5956	-	-	1N3350,B
	-	-	1N6031	-	-	-	-	-

**(For specific device specifications see manufacturers' data sheets.)**

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Have a problem, suggestion, or comment? Please contact the [WebMaster](#).

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