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## Zener Diode

### 50 Watt Rating

TYPE NUMBER		NOMINAL ZENER VOLTAGE V <sub>Z</sub> VOLTS	MAX. ZENER IMPEDANCE				MAX. REVERSE LEAKAGE			MAX. ZENER CURRENT I <sub>ZM</sub> mA	TYP. TEMP. COEFF. @ I <sub>ZT</sub> %/°C
TO-3 CASE	DO-5 CASE		Z <sub>ZT</sub> @	I <sub>ZT</sub>	Z <sub>ZK</sub> @	I <sub>ZK</sub>	I <sub>R</sub> @	V <sub>R1</sub> *	V <sub>R2</sub> **		
1N2804	1N3305	6.8	0.2	1850	70	5	150	4.5	4.3	6600	.040
1N2805	1N3306	7.5	0.3	1700	70	5	75	5.0	4.7	5900	.045
1N2806	1N3307	8.2	0.4	1500	70	5	50	5.4	5.2	5200	.048
1N2807	1N3308	9.1	0.5	1370	70	5	25	6.1	5.7	4800	.051
1N2808	1N3309	10	0.6	1200	80	5	10	6.7	6.3	4300	.055
1N2809	1N3310	11	0.8	1100	80	5	5	8.4	8.0	3900	.060
1N2810	1N3311	12	1.0	1000	80	5	5	9.1	8.6	3600	.065
1N2811	1N3312	13	1.1	960	80	5	5	9.9	9.4	3300	.065
1N2812	1N3313	14	1.2	890	80	5	5	10.6	10.1	3000	.070
1N2813	1N3314	15	1.4	830	80	5	5	11.4	10.8	2800	.070
1N2814	1N3315	16	1.6	780	80	5	5	12.2	11.5	2650	.070
1N2815	1N3316	17	1.8	740	80	5	5	13.0	12.2	2500	.075
1N2816	1N3317	18	2.0	700	80	5	5	13.7	13.0	2300	.075
1N2817	1N3318	19	2.2	660	80	5	5	14.4	13.7	2200	.075
1N2818	1N3319	20	2.4	630	80	5	5	15.2	14.4	2100	.075
1N2819	1N3320	22	2.5	570	80	5	5	16.7	15.8	1900	.080
1N2820	1N3321	24	2.6	520	80	5	5	18.2	17.3	1750	.080
1N2821	1N3322	25	2.7	500	90	5	5	19.0	18.0	1550	.080
1N2822	1N3323	27	2.8	460	90	5	5	20.6	19.4	1500	.085
1N2823	1N3324	30	3.0	420	90	5	5	22.8	21.6	1400	.085
1N2824	1N3325	33	3.2	380	90	5	5	25.1	23.8	1300	.085
1N2825	1N3326	36	3.5	350	90	5	5	27.4	25.9	1150	.085
1N2826	1N3327	39	4.0	320	90	5	5	29.7	28.1	1050	.090
1N2827	1N3328	43	4.5	290	90	5	5	32.7	31.0	975	.090
1N2828	1N3329	45	4.5	280	100	5	5	34.2	32.4	930	.090
1N2829	1N3330	47	5.0	270	100	5	5	35.8	33.8	880	.090
1N2830	1N3331	50	5.0	260	100	5	5	38.0	36.0	830	.090
1N2831	1N3332	51	5.2	245	100	5	5	38.8	36.7	810	.090
1N2832	1N3333	52	5.5	240	100	5	5	39.5	37.4	790	.090
1N2832	1N3334	56	6	220	110	5	5	42.6	40.3	740	.090
1N2833	1N3335	62	7	200	120	5	5	47.1	44.6	660	.090
1N2834	1N3336	68	8	180	140	5	5	51.7	49.0	600	.090
1N2835	1N3337	75	9	170	150	5	5	56.0	54.0	540	.090
1N2836	1N3338	82	11	150	160	5	5	62.2	59.0	490	.090
1N2837	1N3339	91	15	140	180	5	5	69.2	65.5	420	.090
1N2838	1N3340	100	20	120	200	5	5	76.0	72.0	400	.090
1N2839	1N3341	105	25	120	210	5	5	79.8	75.6	380	.095
1N2840	1N3342	110	30	110	220	5	5	83.6	79.2	365	.095
1N2841	1N3343	120	40	100	240	5	5	91.2	86.4	335	.095
1N2842	1N3344	130	50	95	275	5	5	98.8	93.6	310	.095
1N2843	1N3345	140	60	90	325	5	5	106.4	100.8	290	.095
1N2844	1N3346	150	75	85	400	5	5	114.0	108.0	270	.095
1N2844	1N3347	160	80	80	450	5	5	121.6	115.2	250	.095
1N2844	1N3348	175	85	70	500	5	5	133.0	126.0	230	.095
1N2845	1N3349	180	90	68	525	5	5	136.8	129.6	220	.095
1N2846	1N3350	200	100	65	600	5	5	152.0	144.0	200	.100
1N4557	1N4549	3.9	0.16	3200	400	5	150	0.5	0.5	11900	-.025
1N4558	1N4550	4.3	0.16	2900	500	5	150	0.5	0.5	10650	-.025
1N4559	1N4551	4.7	0.12	2650	600	5	100	1.0	1.0	9700	.010
1N4560	1N4552	5.1	0.12	2450	650	5	20	1.0	1.0	8900	.015
1N4561	1N4553	5.6	0.12	2250	900	5	20	1.0	1.0	8100	.030
1N4562	1N4554	6.2	0.14	2000	1000	5	20	2.0	2.0	7300	.045
1N4563	1N4555	6.8	0.16	1850	200	5	10	2.0	2.0	6650	.045
1N4564	1N4556	7.5	0.24	1650	100	5	10	3.0	3.0	6050	.053

NON SUFFIX LETTER TYPES V<sub>Z</sub> = ±20%, ADD SUFFIX LTR "A" FOR ±10%, SUFFIX LTR "B" FOR ±5%

STANDARD POLARITY IS ANODE TO CASE. ADD SUFFIX LTR "R" FOR REVERSE POLARITY

\*V<sub>R1</sub> TEST VOLTAGE FOR "B" ±5% TOLERANCE DEVICE

\*\*V<sub>R2</sub> TEST VOLTAGE FOR "A" ±10% TOLERANCE DEVICE

NO I<sub>R</sub> SPECIFIED FOR ±20% TOLERANCE DEVICE