

ELECTRICAL CHARACTERISTICS @ 25 C (JEDEC Registered Data)

JEDEC TYPE NUMBER	REVERSE STAND-OFF VOLTAGE (NOTE 1) V _R VOLTS	BREAKDOWN VOLTAGE			MAXIMUM CLAMPING VOLTAGE (FIG. 3) V _C VOLTS	MAXIMUM REVERSE LEAKAGE (FIG. 3) I _R μA	MAXIMUM PEAK PULSE CURRENT (FIG. 3) I _{PP} A	MAXIMUM VOLTAGE TEMPERATURE VARIATION OF BV
		BV VOLTS MIN.	BV VOLTS MAX.	I _T MA				
1N5629	5.50	6.12 - 7.48	10	10.8	1000	139	5.0	
1N5629A	5.80	6.45 - 7.14	10	10.5	1000	143	5.0	
1N5630	6.05	6.75 - 8.25	10	11.7	500	128	5.0	
1N5630A	6.40	7.13 - 7.88	10	11.3	500	132	5.0	
1N5631	6.63	7.38 - 9.02	10	12.5	200	120	6.0	
1N5631A	7.02	7.79 - 8.61	10	12.1	200	124	6.0	
1N5632	7.37	8.19 - 10.0	1	13.8	50	109	7.0	
1N5632A	7.78	8.65 - 9.55	1	13.4	50	112	7.0	
1N5633	8.10	9.00 - 11.0	1	15.0	10	100	8.0	
1N5633A	8.55	9.5 - 10.5	1	14.5	10	103	8.0	
1N5634	8.92	9.9 - 12.1	1	16.2	5	93	9.0	
1N5634A	9.40	10.5 - 11.6	1	15.6	5	96	9.0	
1N5635	9.72	10.8 - 13.2	1	17.3	5	87	10	
1N5635A	10.2	11.4 - 12.6	1	16.7	5	90	10	
1N5636	10.5	11.7 - 14.3	1	19.0	5	79	11	
1N5636A	11.1	12.4 - 13.7	1	18.2	5	82	11	
1N5637	12.1	13.5 - 16.5	1	22.0	5	68	13	
1N5637A	12.8	14.3 - 15.8	1	21.2	5	71	12	
1N5638	12.9	14.4 - 17.6	1	23.5	5	64	16	
1N5638A	13.6	15.2 - 16.8	1	22.5	5	67	14	
1N5639	14.5	16.2 - 19.8	1	26.5	5	56.5	17	
1N5639A	15.3	17.1 - 18.9	1	25.2	5	59.5	19	
1N5640	16.2	18.0 - 22.0	1	29.1	5	51.5	20	
1N5640A	17.1	19.0 - 21.0	1	27.7	5	54	19	
1N5641	17.8	19.8 - 24.2	1	31.9	5	47	21	
1N5641A	18.8	20.9 - 23.1	1	30.6	5	49	20	
1N5642	19.4	21.6 - 26.4	1	34.7	5	43	25	
1N5642A	20.5	22.8 - 25.2	1	33.2	5	45	23	
1N5643	21.8	24.3 - 29.7	1	39.1	5	38.5	28	
1N5643A	23.1	25.7 - 28.4	1	37.5	5	40	25	
1N5644	24.3	27.0 - 33.0	1	43.5	5	34.5	31	
1N5644A	25.6	28.5 - 31.5	1	41.4	5	36	28	
1N5645	26.8	29.7 - 36.3	1	47.7	5	31.5	31	
1N5645A	28.2	31.4 - 34.7	1	45.7	5	33	30	
1N5646	29.1	32.4 - 39.6	1	52.0	5	29	35	
1N5646A	30.8	34.2 - 37.8	1	49.9	5	30	31	
1N5647	31.6	35.1 - 42.9	1	56.4	5	26.5	39	
1N5647A	33.3	37.1 - 41.0	1	53.9	5	28	36	
1N5648	34.8	38.7 - 47.3	1	61.9	5	24	46	
1N5648A	36.8	40.9 - 45.2	1	59.3	5	25.3	44	
1N5649	38.1	42.3 - 51.7	1	67.8	5	22.2	50	
1N5649A	40.2	44.7 - 49.4	1	64.8	5	23.2	48	
1N5650	41.3	45.9 - 56.1	1	73.5	5	20.4	55	
1N5650A	43.6	48.5 - 53.6	1	70.1	5	21.4	51	
1N5651	45.4	50.4 - 61.6	1	80.5	5	18.6	58	
1N5651A	47.8	53.2 - 58.8	1	77.0	5	19.5	56	
1N5652	50.2	55.8 - 68.2	1	89.0	5	16.9	65	
1N5652A	53.0	58.9 - 65.1	1	85.0	5	17.7	62	
1N5653	55.1	61.2 - 74.8	1	98.0	5	15.3	71	
1N5653A	58.1	64.6 - 71.4	1	92.0	5	16.3	69	
1N5654	60.7	67.5 - 82.5	1	108.0	5	13.9	80	
1N5654A	64.1	71.3 - 78.8	1	103.0	5	14.6	76	
1N5655	66.4	73.8 - 90.2	1	118.0	5	12.7	90	
1N5655A	70.1	77.9 - 86.1	1	113.0	5	13.3	86	
1N5656	73.7	81.9 - 100.0	1	131.0	5	11.4	99	
1N5656A	77.8	86.5 - 95.5	1	125.0	5	12.0	94	
1N5657	81.0	90.0 - 110.0	1	144.0	5	10.4	109	
1N5657A	85.5	95.0 - 105.0	1	137.0	5	11.0	104	
1N5658	89.2	99.0 - 121.0	1	158.0	5	9.5	120	
1N5658A	94.0	105.0 - 116.0	1	152.0	5	9.9	115	
1N5659	97.2	108.0 - 132.0	1	173.0	5	8.7	131	
1N5659A	102.0	114.0 - 126.0	1	165.0	5	9.1	125	
1N5660	105.0	117.0 - 143.0	1	187.0	5	8.0	142	
1N5660A	111.0	124.0 - 137.0	1	179.0	5	8.4	136	
1N5661	121.0	135.0 - 165.0	1	215.0	5	7.0	164	
1N5661A	128.0	143.0 - 158.0	1	207.0	5	7.2	157	
1N5662	130.0	144.0 - 176.0	1	230.0	5	6.5	175	
1N5662A	136.0	152.0 - 168.0	1	219.0	5	6.8	167	
1N5663	138.0	153.0 - 187.0	1	244.0	5	6.2	186	
1N5663A	145.0	162.0 - 179.0	1	234.0	5	6.4	188	
1N5664	146.0	162.0 - 198.0	1	258.0	5	5.8	197	
1N5664A	154.0	171.0 - 189.0	1	246.0	5	6.1	188	
1N5665	162.0	180.0 - 220.0	1	287.0	5	5.2	219	
1N5665A	171.0	190.0 - 210.0	1	274.0	5	5.5	209	

V_R at 100 amps peak, 8.3 msec sine wave = 3.5 volts maximum.

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FIGURE 3—Pulse Waveform

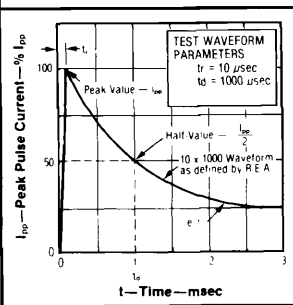
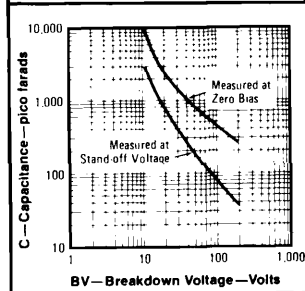


FIGURE 4—Typical Capacitance vs Breakdown Voltage



NOTES

Note 1: A TransZorb is normally selected according to the reverse "Stand Off Voltage" (V_R) which should be equal to or greater than the DC or continuous peak operating voltage level.

ABBREVIATIONS & SYMBOLS

V_R Stand-Off Voltage Applied Reverse Voltage to assure a nonconductive condition (See Note 1)

BV(min) This is the minimum Breakdown Voltage the device will exhibit and is used to assure that conduction does not occur prior to this voltage level at 25°C

V_C(max) Maximum Clamping Voltage The maximum peak voltage appearing across the TransZorb when subjected to the peak pulse current in a one millisecond time interval The peak pulse voltages are the combination of voltage rise due to both the series resistance and thermal rise

I_{pp} Peak Pulse Current — See Figure 3

P_p Peak Pulse Power

I_R Reverse Leakage