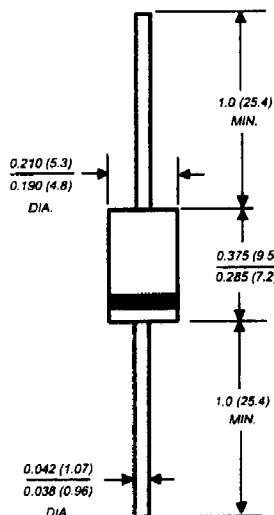


1.5KE6.8 THRU 1.5KE440CA

TRANSZORB™ TRANSIENT VOLTAGE SUPPRESSOR
Breakdown Voltage - 6.8 to 440 Volts Peak Pulse Power - 1500 Watts

Case Style 1.5KE



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated junction
- ◆ 1500W peak pulse power capability on 10/1000μs waveform repetition rate (duty cycle): 0.05%
- ◆ Excellent clamping capability
- ◆ Low incremental surge resistance
- ◆ Fast response time: typically less than 1.0ps from 0 Volts to V_{BR} for uni-directional and 5.0ns for bi-directional types
- ◆ For devices with V_{BR} > 10V, I_B are typically less than 1.0μA
- ◆ High temperature soldering guaranteed: 265°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- ◆ Includes 1N6267 thru 1N6303

MECHANICAL DATA

Case: Molded plastic body over passivated junction
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes positive end (cathode) except for bi-directional
Mounting Position: Any
Weight: 0.045 ounce, 1.2 grams

DEVICES FOR BI-DIRECTIONAL APPLICATIONS

For bidirectional use C or CA suffix for types 1.5KE6.8 thru types 1.5KE440A (e.g. 1.5KE6.8C, 1.5KE440CA).
Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNITS
Peak pulse power dissipation with a 10/1000μs waveform (NOTE 1, Fig. 1)	PPPM	Minimum 1500	Watts
Peak pulse current with a 10/1000μs waveform (NOTE 1)	IPPM	SEE TABLE 1	Amps
Steady state power dissipation at T _L =75°C lead lengths, 0.375" (9.5mm) (NOTE 2)	PM(AV)	6.5	Watts
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) unidirectional only (NOTE 3)	IFSM	200	Amps
Maximum instantaneous forward voltage at 100A for unidirectional only (NOTE 4)	V _F	3.5/5.0	Volts
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +175	°C



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

ELECTRICAL CHARACTERISTICS at (TA=25°C unless otherwise noted) TABLE 1

JEDEC TYPE NUMBER	PART NUMBER	Breakdown Voltage V _{BR} (Volts) (NOTE 1)		Test Current at I _T (mA)	Stand-off Voltage V _{WM} (Volts)	Maximum Reverse Leakage at V _{WM} I _D (NOTE 4) (μA)	Maximum Peak Pulse Current I _{PPM} (NOTE 2) Amps	Maximum Clamping Voltage at I _{PPM} V _C (Volts)	Maximum Temperature Coefficient of V _{BR} (% / °C)
		Min	Max						
1N6267	+1.5KE6.8	6.12	7.48	10	5.50	1000	139	10.8	0.057
1N6267A	+1.5KE6.8A	6.45	7.14	10	5.80	1000	143	10.5	0.057
1N6268	+1.5KE7.5	6.75	8.25	10	6.05	500	128	11.7	0.061
1N6268A	+1.5KE7.5A	7.13	7.88	10	6.40	500	133	11.3	0.061
1N6269	+1.5KE8.2	7.38	9.02	10	6.63	200	120	12.5	0.065
1N6269A	+1.5KE8.2A	7.79	8.61	10	7.02	200	124	12.1	0.065
1N6270	+1.5KE9.1	8.19	10.0	1.0	7.37	50	109	13.8	0.068
1N6270A	+1.5KE9.1A	8.65	9.55	1.0	7.78	50	112	13.4	0.068
1N6271	+1.5KE10	9.00	11.0	1.0	8.10	10	100	15.0	0.073
1N6271A	+1.5KE10A	9.50	10.5	1.0	8.55	10	103	14.5	0.073
1N6272	+1.5KE11	9.90	12.1	1.0	8.92	5.0	92.6	16.2	0.075
1N6272A	+1.5KE11A	10.5	11.6	1.0	9.40	5.0	96.2	15.6	0.075
1N6273	+1.5KE12	10.8	13.2	1.0	9.72	5.0	86.7	17.3	0.076
1N6273A	+1.5KE12A	11.4	12.8	1.0	10.2	5.0	89.8	16.7	0.078
1N6274	+1.5KE13	11.7	14.3	1.0	10.5	5.0	78.9	19.0	0.081
1N6274A	+1.5KE13A	12.4	13.7	1.0	11.1	5.0	82.4	18.2	0.081
1N6275	+1.5KE15	13.5	16.5	1.0	12.1	5.0	68.2	22.0	0.084
1N6275A	+1.5KE15A	14.3	15.8	1.0	12.8	5.0	70.8	21.2	0.084
1N6276	+1.5KE16	14.4	17.6	1.0	12.9	5.0	63.8	23.5	0.086
1N6276A	+1.5KE16A	15.2	16.8	1.0	13.6	5.0	66.7	22.5	0.086
1N6277	+1.5KE18	16.2	19.8	1.0	14.5	5.0	56.6	26.5	0.088
1N6277A	+1.5KE18A	17.1	18.9	1.0	15.3	5.0	59.5	25.2	0.089
1N6278	+1.5KE20	18.0	22.0	1.0	16.2	5.0	51.5	29.1	0.090
1N6278A	+1.5KE20A	19.0	21.0	1.0	17.1	5.0	54.2	27.7	0.090
1N6279	+1.5KE22	19.8	24.2	1.0	17.8	5.0	47.0	31.9	0.092
1N6279A	+1.5KE22A	20.9	23.1	1.0	18.8	5.0	49.0	30.8	0.092
1N6280	+1.5KE24	21.6	26.4	1.0	19.4	5.0	43.2	34.7	0.094
1N6280A	+1.5KE24A	22.8	25.2	1.0	20.5	5.0	45.2	33.2	0.094
1N6281	+1.5KE27	24.3	29.7	1.0	21.8	5.0	38.4	39.1	0.096
1N6281A	+1.5KE27A	25.7	28.4	1.0	23.1	5.0	40.0	37.5	0.096
1N6282	+1.5KE30	27.0	33.0	1.0	24.3	5.0	34.5	43.5	0.097
1N6282A	+1.5KE30A	28.5	31.5	1.0	25.6	5.0	36.2	41.4	0.097
1N6283	+1.5KE33	29.7	36.3	1.0	26.8	5.0	31.4	47.7	0.098
1N6283A	+1.5KE33A	31.4	34.7	1.0	28.2	5.0	32.8	45.7	0.098
1N6284	+1.5KE36	32.4	39.6	1.0	29.1	5.0	28.8	52.0	0.099
1N6284A	+1.5KE36A	34.2	37.8	1.0	30.8	5.0	30.1	49.9	0.099
1N6285	+1.5KE39	35.1	42.9	1.0	31.8	5.0	26.6	56.4	0.100
1N6285A	+1.5KE39A	37.1	41.0	1.0	33.3	5.0	27.8	53.9	0.100
1N6286	+1.5KE43	38.7	47.3	1.0	34.8	5.0	24.2	61.9	0.101
1N6286A	+1.5KE43A	40.9	45.2	1.0	36.8	5.0	25.3	59.3	0.101
1N6287	+1.5KE47	42.3	51.7	1.0	38.1	5.0	22.1	67.8	0.101
1N6287A	+1.5KE47A	44.7	49.4	1.0	40.2	5.0	23.1	64.8	0.101
1N6288	1.5KE51	45.9	56.1	1.0	41.3	5.0	20.4	73.5	0.102
1N6288A	1.5KE51A	48.5	53.6	1.0	43.6	5.0	21.4	70.1	0.102
1N6289	1.5KE56	50.4	61.8	1.0	45.4	5.0	18.6	80.5	0.103
1N6289A	1.5KE56A	53.2	58.8	1.0	47.8	5.0	19.5	77.0	0.103
1N6290	1.5KE62	55.8	68.2	1.0	50.2	5.0	16.9	89.0	0.104
1N6290A	1.5KE62A	58.9	65.1	1.0	53.0	5.0	17.6	85.0	0.104
1N6291	1.5KE68	61.2	74.8	1.0	55.1	5.0	15.3	98.0	0.104

ELECTRICAL CHARACTERISTICS at (TA=25 °C unless otherwise noted) TABLE 1 (Cont'd)

JEDEC TYPE NUMBER	NUMBER	Breakdown Voltage V _{BR} (Volts) (NOTE 1)		Test Current at (mA) I _T	Stand-off Voltage V _{WM} (Volts)	Maximum Reverse Leakage at V _{WM} I _D (NOTE 4) (μA)	Maximum Peak Pulse Current I _{PPM} (NOTE 2) Amps	Maximum Clamping Voltage at I _{PPM} V _C (Volts)	Maximum Temperature Coefficient of V _{BR} (% / °C)
		Min	Max						
1N6291A	1.5KE68A	64.8	71.4	1.0	58.1	5.0	16.3	92.0	0.104
1N6292	1.5KE75	67.5	82.5	1.0	60.7	5.0	13.9	109	0.105
1N6292A	1.5KE75A	71.3	78.8	1.0	64.1	5.0	14.6	104	0.105
1N6293	1.5KE82	73.8	90.2	1.0	66.4	5.0	12.7	118	0.105
1N6293A	1.5KE82A	77.9	86.1	1.0	70.1	5.0	13.3	113	0.105
1N6294	1.5KE91	81.9	100.0	1.0	73.7	5.0	11.5	131	0.106
1N6294A	1.5KE91A	86.5	95.5	1.0	77.8	5.0	12.0	125	0.106
1N6295	1.5KE100	90.0	110	1.0	81.0	5.0	10.4	144	0.106
1N6295A	1.5KE100A	95.0	105	1.0	85.5	5.0	10.9	137	0.106
1N6296	1.5KE110	99.0	121	1.0	89.2	5.0	9.5	158	0.107
1N6296A	1.5KE 110A	105	116	1.0	94.0	5.0	9.9	152	0.107
1N6297	1.5KE120	108	132	1.0	97.2	5.0	8.7	173	0.107
1N6297A	1.5KE120A	114	126	1.0	102	5.0	9.1	165	0.107
1N6298	1.5KE130	117	143	1.0	105	5.0	8.0	187	0.107
1N6298A	1.5KE130A	124	137	1.0	111	5.0	8.4	179	0.107
1N6299	1.5KE150	136	165	1.0	121	5.0	7.0	215	0.108
1N6299A	1.5KE150A	143	158	1.0	128	5.0	7.2	207	0.106
1N6300	1.5KE160	144	176	1.0	130	5.0	6.5	230	0.106
1N6300A	1.5KE160A	152	168	1.0	136	5.0	6.8	219	0.106
1N6301	1.5KE170	153	187	1.0	138	5.0	6.1	244	0.106
1N6301A	1.5KE170A	162	179	1.0	145	5.0	6.4	234	0.106
1N6302	1.5KE180	162	198	1.0	146	5.0	5.8	258	0.106
1N6302A	1.5KE180A	171	189	1.0	154	5.0	6.1	246	0.106
1N6303	1.5KE200	180	220	1.0	162	5.0	5.2	287	0.106
1N6303A	1.5KE200A*	190	210	1.0	171	5.0	5.5	274	0.106
	1.5KE220	198	242	1.0	175	5.0	4.4	344	0.106
	1.5KE220A*	209	231	1.0	185	5.0	4.6	328	0.106
	1.5KE250	225	275	1.0	202	5.0	4.2	360	0.110
	1.5KE250A	237	263	1.0	214	5.0	4.4	344	0.110
	1.5KE300	270	330	1.0	243	5.0	3.5	430	0.110
	1.5KE300A	285	315	1.0	256	5.0	3.6	414	0.110
	1.5KE350	315	385	1.0	284	5.0	3.0	504	0.110
	1.5KE350A	333	368	1.0	300	5.0	3.1	482	0.110
	1.5KE400	360	440	1.0	324	5.0	2.6	574	0.110
	1.5KE400A	380	420	1.0	342	5.0	2.7	548	0.110
	1.5KE440	396	484	1.0	356	5.0	2.4	631	0.110
	1.5KE440A	418	462	1.0	376	5.0	2.5	602	0.110

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