

**semitronics hot line****discrete
devices****TOLL FREE NUMBER 800-777-3960**

1500 Watts (peak)

Metal Case and Epoxy Molded.

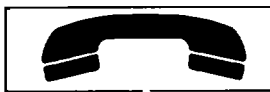
Silicon Voltage Transient Suppressor Diodes

DO-13 METAL	MOLDED CASE	Reverse Stand-Off Voltage	Breakdown Voltage			Maximum Clamping Voltage @ I _{PP}	Maximum Reverse Leakage @ V _R	Maximum Peak Pulse Current	Maximum Temp. Coef. of BV	A* Available as bi- polar add "C" to part number MOLDED CASE JEDEC TYPE NUMBER	MAXIMUM VOLTAGE TEMPERATURE VARIATION OF BV
JEDEC TYPE NO.	TYPE NO.	V _R Volts	BV Volts	@ mA	V _C Volts	I _R μA	I _{PP} A	%/°C			BV (Max) mV/°C
1N5629	1.5SE6.8	5.50	6.12	— 7.48	10	10.8	1000	139	.057	1N6267	5.0
1N5629A	1.5SE6.8A	5.80	6.45	— 7.14	10	10.5	1000	143	.057	1N6267A	5.0
1N5630	1.5SE7.5	6.05	6.75	— 8.25	10	11.7	500	128	.061	1N6268	5.0
1N5630A	1.5SE7.5A	6.40	7.13	— 7.88	10	11.3	500	132	.061	1N6268A	5.0
1N5631	1.5SE8.2	6.63	7.38	— 9.02	10	12.5	200	120	.065	1N6269	6.0
1N5631A	1.5SE8.2A	7.02	7.79	— 8.61	10	12.1	200	124	.065	1N6269A	6.0
1N5632	1.5SE9.1	7.37	8.19	— 10.0	1	13.8	50	109	.068	1N6270	7.0
1N5632A	1.5SE9.1A	7.78	8.65	— 9.55	1	13.4	50	112	.068	1N6270A	7.0
1N5633	1.5SE10	8.10	9.00	— 11.0	1	15.0	50	100	.073	1N6271	8.0
1N5633A	1.5SE10A	8.55	9.5	— 10.5	1	14.5	10	103	.073	1N6271A	8.0
1N5634	1.5SE11	8.92	9.9	— 12.1	1	16.2	5	93	.075	1N6272	9.0
1N5634A	1.5SE11A	9.40	10.5	— 11.6	1	15.6	5	96	.075	1N6272A	9.0
1N5635	1.5SE12	9.72	10.8	— 13.2	1	17.3	5	87	.078	1N6273	10
1N5635A	1.5SE12A	10.2	11.4	— 12.6	1	16.7	5	90	.078	1N6273A	10
1N5636	1.5SE13	10.5	11.7	— 14.3	1	19.0	5	79	.081	1N6274	11
1N5636A	1.5SE13A	11.1	12.4	— 13.7	1	18.2	5	82	.081	1N6274A	11
1N5637	1.5SE15	12.1	13.5	— 16.5	1	22.0	5	68	.084	1N6275	13
1N5637A	1.5SE15A	12.8	14.3	— 15.8	1	21.2	5	71	.084	1N6275A	12
1N5638	1.5SE16	12.9	14.4	— 17.6	1	23.5	5	64	.086	1N6276	16
1N5638A	1.5SE16A	13.6	15.2	— 16.8	1	22.5	5	67	.086	1N6276A	14
1N5639	1.5SE18	14.5	16.2	— 19.8	1	26.5	5	56.5	.088	1N6277	17
1N5639A	1.5SE18A	15.3	17.1	— 18.0	1	25.2	5	59.5	.088	1N6277A	19
1N5640	1.5SE20	16.2	18.0	— 22.0	1	29.1	5	51.5	.090	1N6278	20
1N5640A	1.5SE20A	17.1	19.0	— 21.0	1	27.7	5	54	.090	1N6278A	19
1N5641	1.5SE22	17.8	19.8	— 24.2	1	31.9	5	47	.092	1N6279	21
1N5641A	1.5SE22A	18.8	20.9	— 23.1	1	30.6	5	49	.092	1N6279A	20
1N5642	1.5SE24	19.4	21.6	— 26.4	1	34.7	5	43	.094	1N6280	25
1N5642A	1.5SE24A	20.5	22.8	— 25.2	1	33.2	5	45	.094	1N6280A	23
1N5643	1.5SE27	21.8	24.3	— 29.7	1	39.1	5	38.5	.096	1N6281	28
1N5643A	1.5SE27A	23.1	25.7	— 28.4	1	37.5	5	40	.096	1N6281A	25
1N5644	1.5SE30	24.3	27.0	— 33.0	1	43.5	5	34.5	.097	1N6282	31
1N5644A	1.5SE30A	25.6	28.5	— 31.5	1	41.4	5	36	.097	1N6282A	28
1N5645	1.5SE33	26.8	29.7	— 36.3	1	47.7	5	31.5	.098	1N6283	31
1N5645A	1.5SE33A	28.2	31.4	— 34.7	1	45.7	5	33	.098	1N6283A	30
1N5646	1.5SE36	29.1	32.4	— 39.6	1	52.0	5	29	.099	1N6284	35
1N5646A	1.5SE36A	30.8	34.2	— 37.8	1	49.9	5	30	.099	1N6284A	31
1N5647	1.5SE39	31.6	35.1	— 42.9	1	56.4	5	26.5	.100	1N6285	39
1N5647A	1.5SE39A	33.3	37.1	— 41.0	1	53.9	5	28	.100	1N6285A	36
1N5648	1.5SE43	34.8	38.7	— 47.3	1	61.9	5	24	.101	1N6286	46
1N5648A	1.5SE43A	36.8	40.9	— 45.2	1	59.3	5	25.3	.101	1N6286A	44
1N5649	1.5SE47	38.1	42.3	— 51.7	1	67.8	5	22.2	.101	1N6287	50
1N5649A	1.5SE47A	40.2	44.7	— 49.4	1	64.8	5	21.2	.101	1N6287A	48
1N5650	1.5SE51	41.3	45.9	— 56.1	1	73.5	5	20.4	.102	1N6288	55
1N5650A	1.5SE51A	43.6	48.5	— 53.6	1	70.1	5	21.4	.102	1N6288A	51
1N5651	1.5SE56	45.4	50.4	— 61.6	1	80.5	5	18.6	.103	1N6289	58
1N5651A	1.5SE56A	47.8	53.2	— 58.8	1	77.0	5	19.5	.103	1N6289A	56
1N5652	1.5SE62	50.2	55.8	— 68.2	1	89.0	5	16.9	.104	1N6290	65
1N5652A	1.5SE62A	53.0	58.9	— 65.1	1	85.0	5	17.7	.104	1N6290A	62
1N5653	1.5SE68	55.1	61.2	— 74.8	1	98.0	5	15.3	.104	1N6291	71
1N5653A	1.5SE68A	58.1	64.6	— 71.4	1	92.0	5	16.3	.104	1N6291A	69
1N5654	1.5SE75	60.7	67.5	— 82.5	1	108.0	5	13.9	.105	1N6292	80
1N5654A	1.5SE75A	64.1	71.3	— 78.8	1	103.0	5	14.6	.105	1N6292A	76
1N5655	1.5SE82	66.4	73.8	— 90.2	1	118.0	5	12.7	.105	1N6293	90
1N5655A	1.5SE82A	70.1	77.9	— 86.1	1	113.0	5	13.3	.105	1N6293A	86
1N5656	1.5SE91	73.7	81.9	— 100.0	1	131.0	5	11.4	.106	1N6294	99
1N5656A	1.5SE91A	77.8	86.5	— 95.5	1	125.0	5	12.0	.106	1N6294A	94
1N5657	1.5SE100	81.0	90.0	— 110.0	1	144.0	5	10.4	.106	1N6295	109
1N5657A	1.5SE100A	85.5	95.0	— 105.0	1	137.0	5	11.0	.106	1N6295A	104
1N5658	1.5SE110	89.2	99.0	— 121.0	1	158.0	5	9.5	.107	1N6296	120
1N5658A	1.5SE110A	94.0	105.0	— 116.0	1	152.0	5	9.9	.107	1N6296A	115
1N5659	1.5SE120	97.2	108.0	— 132.0	1	173.0	5	8.7	.107	1N6297	131
1N5659A	1.5SE120A	102.0	114.0	— 126.0	1	165.0	5	9.1	.107	1N6297A	125
1N5660	1.5SE130	105.0	117.0	— 143.0	1	287.0	5	8.0	.107	1N6298	142
1N5660A	1.5SE130A	111.0	124.0	— 137.0	1	279.0	5	8.4	.107	1N6298A	136
1N5661	1.5SE150	121.0	135.0	— 165.0	1	215.0	5	7.0	.108	1N6299	164
1N5661A	1.5SE150A	128.0	143.0	— 158.0	1	207.0	5	7.2	.108	1N6299A	157
1N5662	1.5SE160	130.0	144.0	— 176.0	1	230.0	5	6.5	.108	1N6300	175
1N5662A	1.5SE160A	136.0	152.0	— 168.0	1	219.0	5	6.8	.108	1N6300A	167
1N5663	1.5SE170	138.0	153.0	— 187.0	1	244.0	5	6.2	.108	1N6301	186
1N5663A	1.5SE170A	145.0	162.0	— 179.0	1	234.0	5	6.4	.108	1N6301A	188
1N5664	1.5SE180	146.0	162.0	— 198.0	1	258.0	5	5.8	.108	1N6302	197
1N5664A	1.5SE180A	154.0	171.0	— 189.0	1	246.0	5	6.1	.108	1N6302A	188
1N5665	1.5SE200	162.0	180.0	— 220.0	1	287.0	5	5.2	.108	1N6303	219
1N5665A	1.5SE200A	171.0	190.0	— 210.0	1	274.0	5	5.5	.108	1N6303A	209

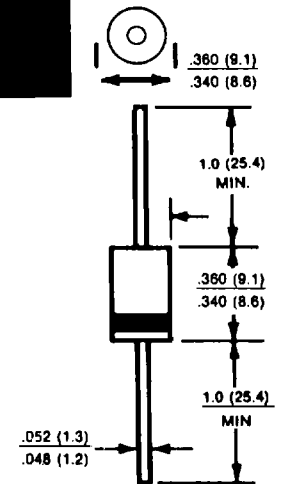
transient suppressors

1.5 KW DO-13 (metal case) bi-polar

JEDEC TYPE NUMBER	Reverse Stand-Off Voltage V _R Volts	Breakdown Voltage @ BV Volts	I _T mA	Maximum Clamping Voltage @ 1pp (1 mSEC) V _C VOLTS	Maximum Reverse Leakage @ V _R I _R μA	Maximum Peak Pulse Current I _{pp} A	Maximum Temp CoEFF of BV %/°C
1N6036	5.5	6.75 — 8.25	10	11.7	1000	128	.061
1N6036A	6.0	7.13 — 7.88	10	11.3	1000	132	.061
1N6037	6.5	7.38 — 9.02	10	12.5	500	120	.065
1N6037A	7.0	7.79 — 8.61	10	12.1	500	124	.065
1N6038	7.0	8.19 — 10.0	10	13.8	200	109	.068
1N6038A	7.5	8.65 — 9.55	10	13.4	200	112	.068
1N6039	8.0	9.00 — 11.0	1	15.0	50	100	.073
1N6039A	8.5	9.5 — 10.5	1	14.5	50	103	.073
1N6040	8.5	9.9 — 12.1	1	16.2	10	93	.075
1N6040A	9.0	10.5 — 11.6	1	15.6	10	96	.075
1N6041	9.0	10.8 — 13.2	1	17.3	5	87	.078
1N6041A	10.0	11.4 — 12.6	1	16.7	5	90	.078
1N6042	10.0	11.7 — 14.3	1	19.0	5	79	.081
1N6042A	11.0	12.4 — 13.7	1	18.2	5	82	.081
1N6043	11.0	13.5 — 16.5	1	22.0	5	68	.084
1N6043A	12.0	14.3 — 15.8	1	21.2	5	71	.084
1N6044	12.0	14.4 — 17.6	1	23.5	5	64	.086
1N6044A	13.0	15.2 — 16.8	1	22.5	5	67	.086
1N6046	14.0	16.2 — 19.8	1	26.5	5	56.5	.088
1N6045A	15.0	17.1 — 18.9	1	25.2	5	59.5	.088
1N6046	16.0	18.0 — 22.0	1	29.1	5	51.5	.090
1N6046A	17.0	19.0 — 21.0	1	27.7	5	54	.090
1N6047	17.0	19.8 — 24.2	1	31.9	5	47	.092
1N6047A	18.0	20.9 — 23.1	1	30.6	5	49	.092
1N6048	19.0	21.6 — 26.4	1	34.7	5	43	.094
1N6048A	20.0	22.8 — 25.2	1	33.2	5	45	.094
1N6049	21.0	24.3 — 29.7	1	39.1	5	38.5	.096
1N6049A	22.0	25.7 — 28.4	1	37.5	5	40	.096
1N6050	24.0	27.0 — 33.0	1	43.5	5	34.5	.097
1N6050A	25.0	28.5 — 31.5	1	41.4	5	36	.097
1N6051	26.0	29.7 — 36.3	1	47.7	5	31.5	.098
1N6051A	28.0	31.4 — 34.7	1	45.7	5	33	.098
1N6052	29.0	32.4 — 39.6	1	52.0	5	29	.099
1N6052A	30.0	34.2 — 37.8	1	49.9	5	30	.099
1N6053	31.0	35.1 — 42.9	1	56.4	5	26.5	.100
1N6053A	33.0	37.1 — 41.0	1	53.9	5	28	.100
1N6054	34.0	38.7 — 47.3	1	61.9	5	24	.101
1N6054A	36.0	40.9 — 45.2	1	59.3	5	25.3	.101
1N6055	38.0	42.3 — 51.7	1	67.8	5	22.2	.101
1N6055A	40.0	44.7 — 49.4	1	64.8	5	23.2	.101
1N6056	41.0	45.9 — 56.1	1	73.5	5	20.4	.102
1N6056A	43.0	48.5 — 53.6	1	70.1	5	21.4	.102
1N6057	45.0	50.4 — 61.6	1	80.5	5	18.6	.103
1N6057A	47.0	53.2 — 58.8	1	77.0	5	19.5	.103
1N6058	48.0	55.8 — 68.2	1	89.0	5	16.9	.104
1N6058A	53.0	58.9 — 65.1	1	85.0	5	17.7	.104
1N6059	55.0	61.2 — 74.8	1	98.0	5	15.3	.104
1N6059A	58.0	64.6 — 71.4	1	92.0	5	16.3	.104
1N6060	60.0	67.5 — 82.5	1	108.0	5	13.9	.105
1N6060A	64.0	71.3 — 78.8	1	103.0	5	14.6	.105
1N6061	66.0	73.8 — 90.2	1	118.0	5	12.7	.105
1N6061A	70.0	77.9 — 86.1	1	113.0	5	13.3	.105
1N6062	73.0	81.9 — 100.0	1	131.0	5	11.4	.106
1N6062A	75.0	86.5 — 95.5	1	125.0	5	12.0	.106
1N6063	81.0	90.0 — 110.0	1	144.0	5	10.4	.106
1N6063A	82.0	95.0 — 105.0	1	137.0	5	11.0	.106
1N6064	90.0	99.0 — 121.0	1	158.0	5	9.5	.107
1N6064A	94.0	105.0 — 116.0	1	152.0	5	9.9	.107
1N6065	95.0	108.0 — 132.0	1	176.0	5	8.5	.107
1N6065A	100.0	114.0 — 126.0	1	168.0	5	8.9	.107
1N6066	105.0	117.0 — 143.0	1	191.0	5	7.8	.107
1N6066A	110.0	124.0 — 137.0	1	182.0	5	8.2	.107
1N6067	121.0	135.0 — 165.0	1	223.0	5	6.7	.108
1N6067A	128.0	143.0 — 158.0	1	213.0	5	7.0	.108
1N6068	137.0	153.0 — 187.0	1	258.0	5	5.8	.108
1N6068A	145.0	162.0 — 179.0	1	245.0	5	6.1	.108
1N6069	145.0	162.0 — 198.0	1	274.0	5	5.5	.108
1N6069A	150.0	171.0 — 189.0	1	261.0	5	5.7	.108
1N6070	155.0	171.0 — 210.0	1	292.0	5	5.1	.108
1N6070A	160.0	181.0 — 200.0	1	278.0	5	5.4	.108
1N6071	165.0	180.0 — 220.0	1	308.0	5	4.9	.108
1N6071A	170.0	190.0 — 210.0	1	294.0	5	5.1	.108
1N6072	175.0	198.0 — 242.0	1	344.0	5	4.3	.108
1N6072A	185.0	209.0 — 231.0	1	328.0	5	4.6	.108

**semitronics** hot linediscrete
devices**TOLL FREE NUMBER 800-777-3960****ELECTRICAL CHARACTERISTICS @ 25°C**

PART NUMBER	REVERSE STAND OFF VOLTAGE (NOTE 1) V _R VOLTS	BREAKDOWN VOLTAGE			MAXIMUM REVERSE LEAKAGE @ V _R	MAXIMUM CLAMPING VOLTAGE @ I _{pp}	MAXIMUM PEAK PULSE CURRENT	MAXIMUM VOLTAGE TEMPERATURE VARIATION OF BV
		BV		I _T mA	I _R uA	V _C VOLTS	I _{pc} A	mV/°C
		VOLTS MIN.	VOLTS MAX.					
5KP5.0	5.0	6.40 -	7.30	50	2000	9.6	520	4.0
5KP5.0A	5.0	6.40 -	7.00	50	2000	9.2	543	4.0
5KP6.0	6.0	6.67 -	8.15	50	5000	11.4	439	4.0
5KP6.0A	6.0	6.67 -	7.37	50	5000	10.3	485	4.0
5KP6.5	6.5	7.22 -	8.82	50	2000	12.3	407	4.0
5KP6.5A	6.5	7.22 -	7.89	50	2000	11.2	447	4.0
5KP7.0	7.0	7.78 -	9.51	50	1000	13.3	378	5.0
5KP7.0A	7.0	7.78 -	8.60	50	1000	12.0	417	5.0
5KP7.5	7.5	8.33 -	10.2	5	250	14.3	350	6.0
5KP7.5A	7.5	8.33 -	9.21	5	250	12.9	388	6.0
5KP8.0	8.0	8.89 -	10.9	5	150	15.0	333	6.0
5KP8.0A	8.0	8.89 -	9.83	5	150	13.6	367	6.0
5K8.5	8.5	9.44 -	11.5	5	50	15.9	314	7.0
5KP8.5A	8.5	9.44 -	10.4	5	50	14.4	347	7.0
5KP9.0	9.0	10.0 -	12.2	5	20	16.9	285	8.0
5KP9.0A	9.0	10.0 -	11.1	5	20	15.4	325	8.0
5KP10	10	11.1 -	13.6	5	15	18.8	266	9.0
5KP10A	10	11.1 -	12.3	5	15	17.0	294	9.0
5KP11	11	12.2 -	14.9	5	10	20.1	249	10
5KP11A	11	12.2 -	13.5	5	10	18.2	274	10
5KP12	12	13.3 -	16.3	5	10	22.0	227	11
5KP12A	12	13.3 -	14.7	5	10	19.9	251	11
5KP13	13	14.4 -	17.6	5	10	23.8	210	12
5KP13A	13	14.4 -	15.9	5	10	21.5	232	12
5KP14	14	15.6 -	19.1	5	10	25.8	194	13
5KP14A	14	15.6 -	17.2	5	10	23.2	215	13
5KP15	15	16.7 -	20.4	5	10	26.9	188	15
5KP15A	15	16.7 -	18.5	5	10	24.4	206	15
5KP16	16	17.8 -	21.8	5	10	28.8	176	18
5KP16A	16	17.8 -	19.7	5	10	26.0	192	16
5KP17	17	18.9 -	23.1	5	10	30.5	164	19
5KP17A	17	18.9 -	20.9	5	10	27.6	181	18
5KP18	18	20.0 -	24.4	5	10	32.2	155	20
5KP18A	18	20.0 -	22.1	5	10	29.2	172	19
5KP20	20	22.2 -	27.1	5	10	35.8	139	24
5KP20A	20	22.2 -	24.5	5	10	32.4	154	22
5KP22	22	24.4 -	29.8	5	10	39.4	127	27
5KP22A	22	24.4 -	26.9	5	10	35.5	141	24
5KP24	24	26.7 -	32.6	5	10	43.0	116	30
5KP24A	24	26.7 -	29.5	5	10	38.9	128	27
5KP26	26	28.9 -	35.3	5	10	46.6	107	33
5KP26A	26	28.9 -	31.9	5	10	42.1	119	29
5KP28	28	31.1 -	38.0	5	10	50.1	99	34
5KP28A	28	31.1 -	34.4	5	10	45.5	110	30
5KP30	30	33.3 -	40.7	5	10	53.3	93	38
5KP30A	30	33.3 -	36.8	5	10	48.4	103	35
5KP33	33	36.7 -	44.9	5	10	59.0	85	41
5KP33A	33	36.7 -	40.6	5	10	53.3	94	38
5KP36	36	40.0 -	48.9	5	10	64.3	78	45
5KP36A	36	40.0 -	44.2	5	10	58.1	86	40
5KP40	40	44.4 -	54.3	5	10	71.4	70	50
5KP40A	40	44.4 -	49.1	5	10	64.5	78	45
5KP43	43	47.8 -	58.4	5	10	76.7	65	54
5KP43A	43	47.8 -	52.8	5	10	69.4	72	49
5KP45	45	50.0 -	61.1	5	10	80.3	62	57
5KP45A	45	50.0 -	55.3	5	10	72.7	69	51
5KP48	48	53.3 -	65.1	5	10	85.5	58	62
5KP48A	48	53.3 -	58.9	5	10	77.4	65	55
5KP51	51	56.7 -	69.3	5	10	91.1	55	65
5KP51A	51	56.7 -	62.7	5	10	82.4	61	60
5KP54	54	60.0 -	73.3	5	10	96.3	52	70
5KP54A	54	60.0 -	66.3	5	10	87.1	57	64
5KP58	58	64.4 -	78.7	5	10	103.0	49	77
5KP58A	58	64.4 -	71.2	5	10	93.6	53	69
5KP60	60	66.7 -	81.5	5	10	107.0	47	79
5KP60A	60	66.7 -	73.7	5	10	96.8	52	70
5KP64	64	71.1 -	86.9	5	10	114.0	44	85
5KP64A	64	71.1 -	78.6	5	10	103.0	49	75
5KP70	70	77.8 -	95.1	5	10	125	40	93
5KP70A	70	77.8 -	86.0	5	10	113	44	84
5KP75	75	83.3 -	102.0	5	10	134	37	100
5KP75A	75	83.3 -	92.1	5	10	121	41	90
5KP78	78	86.7 -	106.0	5	10	139	36	104
5KP78A	78	86.7 -	95.8	5	10	126	40	94
5KP85	85	94.4 -	115.0	5	10	151	33	113
5KP85A	85	94.4 -	104.0	5	10	137	36	102
5KP90	90	100 -	122	5	10	160	31	120
5KP90A	90	100 -	111	5	10	146	34	109
5KP100	100	111 -	136	5	10	179	28	134
5KP100A	100	111 -	123	5	10	162	31	122
5KP110	110	122 -	149	5	10	196	26	147
5KP110A	110	122 -	135	5	10	177	28	132
V _r at 100 amps peak, 8.3 msec sine wave = 3.5 volts maximum.								

V_i at 100 amps peak, 8.3 msec sine wave = 3.5 volts maximum.**TRANSIENT VOLTAGE
SUPPRESSORS****5KP5.0
THRU
5KP110A**

Dimensions in inches and (millimeters)

For tape and reel, bulk or
ammo pack, consult factory.**MAXIMUM RATINGS**

- 5000 Watts of Peak Power dissipation at 25°C (see derating curve)
- t_{clamping} (0 volts to BV min): Less than 1×10^{-12} second (theoretical)
- Operating and Storage temperatures: -55° to +175°C
- Steady State power dissipation: 5.0 watt at $T_L = 25^\circ\text{C}$, Lead Length = 3/8"
- Repetition rate (duty cycle): .05%

ABBREVIATIONS & SYMBOLS

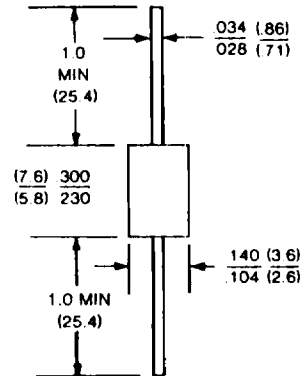
V _R	Stand-off Voltage: Applied Reverse Voltage to assure a nonconductive condition. (See Note 1)
BV _(min)	This is the minimum Breakdown Voltage the device will exhibit and is used to assure that conduction does not occur prior to this voltage level at 25° C.
V _{C(max)}	Maximum Clamping Voltage. The 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
P _p	Peak Pulse Power
1 _R	Reverse Leakage

ELECTRICAL CHARACTERISTICS 25 C

PART NUMBER	REVERSE STAND-OFF VOLTAGE (NOTE 1) VR VOLTS	BREAKDOWN VOLTAGE BV			MAXIMUM REVERSE LEAKAGE (a) VR IR uA	MAXIMUM CLAMPING VOLTAGE (a) IPP VC VOLTS	MAXIMUM PEAK PULSE CURRENT IPP A	MAXIMUM VOLTAGE TEMPERATURE VARIATION OF BV mV/°C
		VOLTS MIN.	MAX.	IT mA				
*P6KE6.5	5.50	6.12	7.48	10	1000	10.6	56	5.0
*P6KE8.8A	5.80	6.45	7.14	10	1000	10.6	57	5.0
P6KE7.5	6.05	6.75	8.25	10	500	11.2	51	5.0
P6KE7.5A	6.40	7.13	7.88	10	500	11.2	53	5.0
P6KE8.2	6.63	7.38	9.02	10	200	12.1	48	6.0
P6KE8.2A	7.02	7.79	8.61	10	200	12.1	50	6.0
P6KE9.1	7.37	8.19	10.0	1	50	13.4	44	7.0
P6KE9.1A	7.76	8.65	9.55	1	50	13.4	45	7.0
P6KE10	8.10	9.00	11.0	1	10	15.1	40	8.0
P6KE10A	8.55	9.5	10.5	1	10	14.1	41	8.0
P6KE11	8.82	9.9	12.1	1	5	16.2	37	9.0
P6KE11A	9.40	10.5	11.6	1	5	15.1	38	9.0
P6KE12	9.72	10.8	13.2	1	5	17.1	35	10
P6KE12A	10.2	11.4	12.6	1	5	16.2	36	10
P6KE13	10.5	11.7	14.3	1	5	19.1	32	11
P6KE13A	11.1	12.4	13.7	1	5	18.1	33	11
P6KE15	12.1	13.5	16.5	1	5	22.1	27	13
P6KE15A	12.8	14.3	15.8	1	5	21.2	28	12
P6KE16	12.9	14.4	17.6	1	5	23.1	26	16
P6KE16A	13.6	15.2	16.8	1	5	22.1	27	14
P6KE18	14.5	16.2	19.8	1	5	26.1	23	17
P6KE18A	15.3	17.1	18.9	1	5	25.2	24	19
P6KE20	16.2	18.0	22.0	1	5	29.1	21	20
P6KE20A	17.1	19.0	21.0	1	5	27.2	22	19
P6KE22	17.8	19.8	24.2	1	5	31.1	19	21
P6KE22A	18.8	20.9	23.1	1	5	30.2	20	20
P6KE24	19.4	21.6	26.4	1	5	34.1	17	25
P6KE24A	20.5	22.8	25.2	1	5	33.2	18	23
P6KE27	21.8	24.3	29.7	1	5	39.1	15	28
P6KE27A	23.1	25.7	28.4	1	5	37.2	16	25
P6KE30	24.3	27.0	33.0	1	5	43.1	14	31
P6KE30A	25.6	28.5	31.5	1	5	41.2	14.4	28
P6KE33	26.8	29.7	36.3	1	5	47.1	12.6	31
P6KE33A	28.2	31.4	34.7	1	5	45.2	13.2	30
P6KE36	29.1	32.4	39.6	1	5	52.1	11.6	35
P6KE36A	30.8	34.2	37.8	1	5	49.2	12.0	31
P6KE39	31.6	35.1	42.9	1	5	56.1	10.6	39
P6KE39A	33.3	37.1	41.0	1	5	53.2	11.2	36
P6KE43	34.8	38.7	47.3	1	5	61.1	9.6	46
P6KE43A	36.6	40.9	45.2	1	5	59.2	10.1	44
P6KE47	38.1	42.3	51.7	1	5	67.1	8.9	50
P6KE47A	40.2	44.7	49.4	1	5	64.2	9.3	48
P6KE51	41.3	45.9	56.1	1	5	73.1	8.2	55
P6KE51A	43.6	48.5	53.6	1	5	70.2	8.6	51
P6KE56	45.4	50.4	61.6	1	5	80.1	7.4	58
P6KE56A	47.8	53.2	58.8	1	5	77.2	7.8	56
P6KE62	50.2	55.8	68.2	1	5	89.1	6.8	65
P6KE62A	53.0	58.9	65.1	1	5	85.2	7.1	62
P6KE68	55.1	61.2	74.8	1	5	98.1	6.1	71
P6KE68A	58.1	64.6	71.4	1	5	92.2	6.5	69
P6KE75	60.7	67.5	82.5	1	5	108.1	5.5	80
P6KE75A	64.1	71.3	78.8	1	5	103.2	5.8	76
P6KE82	66.4	73.8	90.2	1	5	118.1	5.1	90
P6KE82A	70.1	77.9	86.1	1	5	113.2	5.3	86
P6KE91	73.7	81.9	100.0	1	5	131.1	4.5	99
P6KE91A	77.8	86.5	95.5	1	5	125.2	4.8	94
P6KE100	81.0	90.0	110.0	1	5	144.1	4.2	109
P6KE100A	85.5	95.0	105.0	1	5	137.2	4.4	104
P6KE110	89.2	99.0	121.0	1	5	158.1	3.8	120
P6KE110A	94.0	105.0	116.0	1	5	152.2	4.0	115
P6KE120	97.2	108.0	132.0	1	5	173.1	3.5	131
P6KE120A	102.0	114.0	126.0	1	5	165.2	3.6	125
P6KE130	105.0	117.0	143.0	1	5	187.1	3.2	142
P6KE130A	111.0	124.0	137.0	1	5	179.2	3.3	136
P6KE150	121.0	135.0	165.0	1	5	215.1	2.8	164
P6KE150A	128.0	143.0	158.0	1	5	207.2	2.9	157
P6KE160	130.0	144.0	176.0	1	5	230.1	2.6	175
P6KE160A	136.0	152.0	168.0	1	5	219.2	2.7	167
P6KE170	138.0	153.0	187.0	1	5	244.1	2.5	186
P6KE170A	145.0	162.0	179.0	1	5	234.2	2.6	188
P6KE180	146.0	162.0	196.0	1	5	258.1	2.3	197
P6KE180A	154.0	171.0	189.0	1	5	246.2	2.4	188
P6KE200	162.0	180.0	220.0	1	5	287.1	2.1	219
P6KE200A	171.0	190.0	210.0	1	5	274.2	2.2	209

TRANSIENT VOLTAGE SUPPRESSORS

P6KE6.8
THRU
P6KE200A



All dimensions in inches and (millimeters)

For tape and reel, bulk or
ammo pack, consult factory.

MAXIMUM RATINGS

- 600 watts of Peak Pulse Power dissipation at 25°C (see derating curve)
- $t_{clamping}$ (0 volts to BV min): Less than 1×10^{-12} second (theoretical)
- Operating and Storage temperatures: -65° to +175°C
- Forward surge rating: half cycle 100A, 1/120 sec. at °C (except Bipolar)
- Steady State power dissipation: 5W at $T_L = 75^\circ\text{C}$, Lead Length = 3/8"
- Repetition rate (duty cycle): .01%

ABBREVIATIONS & SYMBOLS

V_R	Stand-off Voltage: Applied Reverse Voltage to assure a nonconductive condition.
$BV_{(min)}$	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
P_P	Peak Pulse Power
I_R	Reverse Leakage

V_R at 50 amps peak, 8.3 msec sine wave = 3.5 volts maximum (except Bipolar).
FOR BIPOLAR APPLICATIONS—use C or CA suffix for types P6KE7.5 through P6KE200A.
*Not available as bidirectional