

RATING AND CHARACTERISTICS CURVES (1.5KE6.8 THRU 1.5KE440CA)

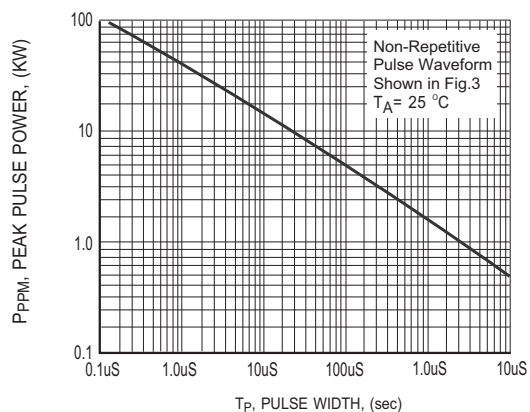


FIG.1 PEAK PULSE POWER RATING CURVE

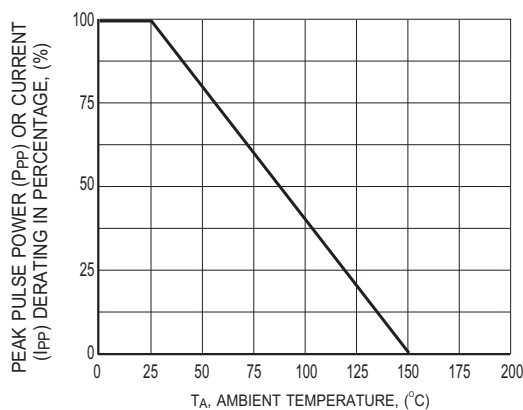


FIG.2 PULSE DERATING CURVE

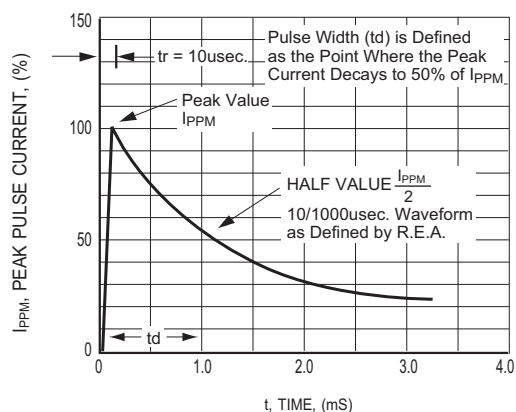


FIG.3 PULSE WAVEFORM

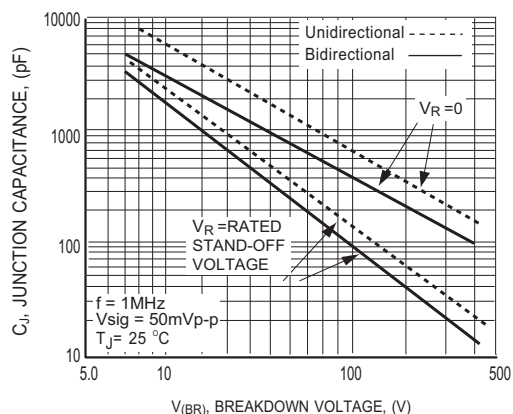


FIG.4 TYPICAL JUNCTION CAPACITANCE BIDIRECTIONAL

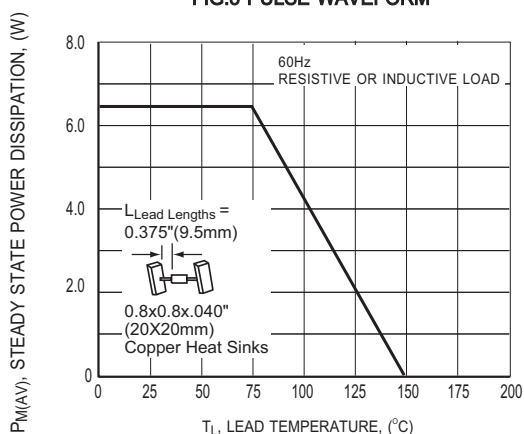


FIG.5 STEADY STATE POWER DERATING CURVE

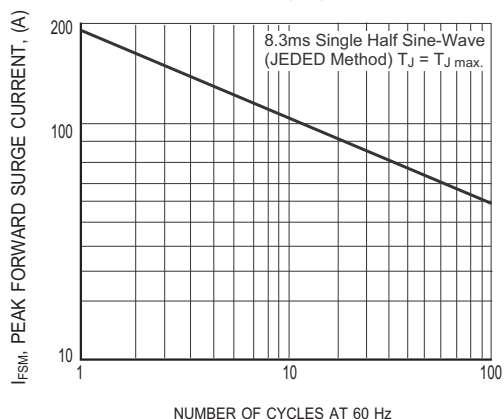


FIG.6 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT UNIDIRECTIONAL

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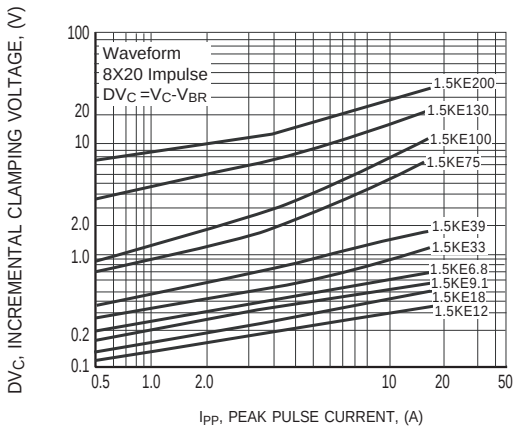


FIG.7 INCREMENTAL CLAMPING VOLTAGE CURVE UNIDIRECTIONAL

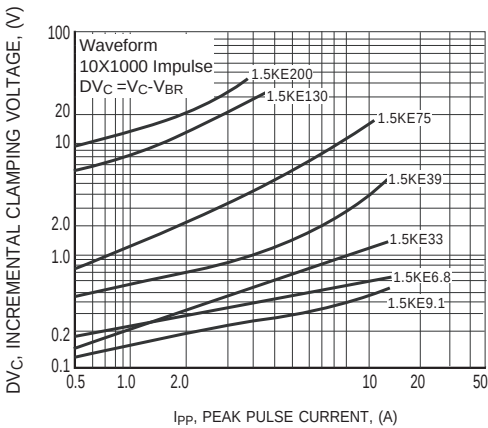


FIG.8 INCREMENTAL CLAMPING VOLTAGE CURVE UNIDIRECTIONAL

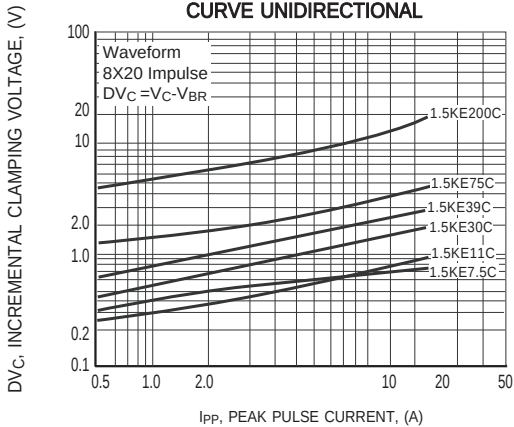


FIG.9 INCREMENTAL CLAMPING VOLTAGE CURVE BIDIRECTIONAL

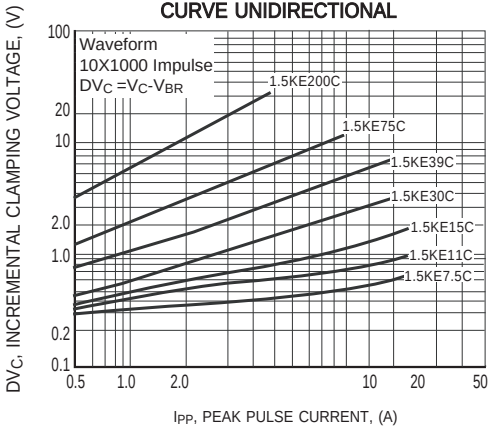


FIG.10 INCREMENTAL CLAMPING VOLTAGE CURVE BIDIRECTIONAL

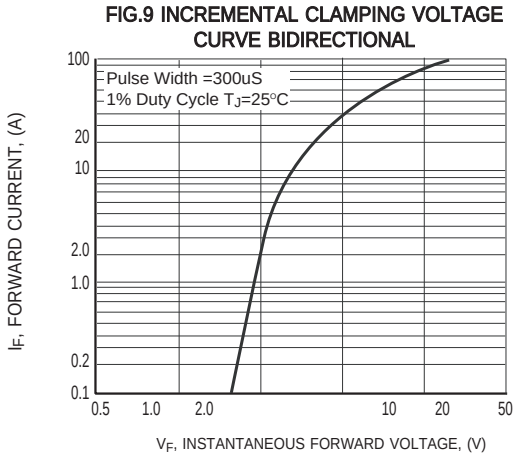


FIG.11 INSTANTANEOUS FORWARD VOLTAGE CHARACTERISTICS CURVE

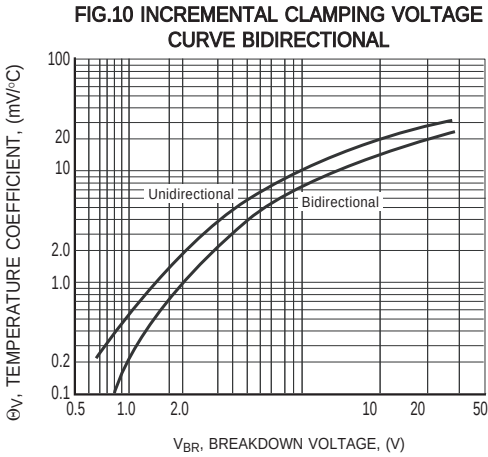


FIG.12 BREAKDOWN VOLTAGE TEMPERATURE COEFFICIENT CURVE



TRANSIENT VOLTAGE SUPPRESSORS

1500W SERIES TVS DIODES/ 1.5KE (CASE 10) 1500W

TYPE	Breakdown Voltage			Reverse Stand off Voltage VWM (Volts)	Maximum Reverse Leakage at VWM ID(μA)	Maximum Peak Pulse Current IPPM (Amps)	Maximum Clamping Voltage at IPPM VC (Volts)
	VBR (Volts)		@IT (mA)				
	MIN.	MAX.					
1.5KE6.8	6.12	7.48	10	5.50	1000	139	10.8
1.5KE6.8A	6.45	7.14	10	5.80	1000	143	10.5
1.5KE7.5	6.75	8.25	10	6.05	500	128	11.7
1.5KE7.5A	7.13	7.88	10	6.40	500	133	11.3
1.5KE8.2	7.38	9.02	10	6.63	200	120	12.5
1.5KE8.2A	7.79	8.61	10	7.02	200	124	12.1
1.5KE9.1	8.19	10.0	1.0	7.37	50	109	13.8
1.5KE9.1A	8.65	9.55	1.0	7.78	50	112	13.4
1.5KE10	9.00	11.0	1.0	8.10	10	100	15.0
1.5KE10A	9.50	10.5	1.0	8.55	10	103	14.5
1.5KE11	9.90	12.1	1.0	8.92	5.0	92.6	16.2
1.5KE11A	10.5	11.6	1.0	9.40	5.0	96.2	15.6
1.5KE12	10.8	13.2	1.0	9.72	5.0	86.7	17.3
1.5KE12A	11.4	12.6	1.0	10.2	5.0	89.8	16.7
1.5KE13	11.7	14.3	1.0	10.5	5.0	78.9	19.0
1.5KE13A	12.4	13.7	1.0	11.1	5.0	82.4	18.2
1.5KE15	13.5	16.5	1.0	12.1	5.0	68.2	22.0
1.5KE15A	14.3	15.8	1.0	12.8	5.0	70.8	21.2
1.5KE16	14.4	17.6	1.0	12.9	5.0	63.8	23.5
1.5KE16A	15.2	16.8	1.0	13.6	5.0	66.7	22.5
1.5KE18	16.2	19.8	1.0	14.5	5.0	56.6	26.5
1.5KE18A	17.1	18.9	1.0	15.3	5.0	59.5	25.2
1.5KE20	18.0	22.0	1.0	16.2	5.0	51.5	29.1
1.5KE20A	19.0	21.0	1.0	17.1	5.0	54.2	27.7
1.5KE22	19.8	24.2	1.0	17.8	5.0	47	31.9
1.5KE22A	20.9	23.1	1.0	18.8	5.0	49	30.6
1.5KE24	21.6	26.4	1.0	19.4	5.0	43.2	34.7
1.5KE24A	22.8	25.2	1.0	20.5	5.0	45.2	33.2
1.5KE27	24.3	29.7	1.0	21.8	5.0	38.4	39.1
1.5KE27A	25.7	28.4	1.0	23.1	5.0	40	37.5
1.5KE30	27.0	33.0	1.0	24.3	5.0	34.5	43.5
1.5KE30A	28.5	31.5	1.0	25.6	5.0	36.2	41.4
1.5KE33	29.7	36.3	1.0	26.8	5.0	31.4	47.7
1.5KE33A	31.4	34.7	1.0	28.2	5.0	32.8	45.7
1.5KE36	32.4	39.6	1.0	29.1	5.0	28.8	52.0
1.5KE36A	34.2	37.8	1.0	30.8	5.0	30.1	49.9
1.5KE39	35.1	42.9	1.0	31.6	5.0	26.6	56.4
1.5KE39A	37.1	41.0	1.0	33.3	5.0	27.8	53.9
1.5KE43	38.7	47.3	1.0	34.8	5.0	24.2	61.9
1.5KE43A	40.9	45.2	1.0	36.8	5.0	25.3	59.3
1.5KE47	42.3	51.7	1.0	38.1	5.0	22.1	67.8
1.5KE47A	44.7	49.4	1.0	40.2	5.0	23.1	64.8
1.5KE51	45.9	56.1	1.0	41.3	5.0	20.4	73.5
1.5KE51A	48.5	53.6	1.0	43.6	5.0	21.4	70.1
1.5KE56	50.4	61.6	1.0	45.4	5.0	18.6	80.5
1.5KE56A	53.2	58.8	1.0	47.8	5.0	19.5	77.0



TRANSIENT VOLTAGE SUPPRESSORS

1500W SERIES TVS DIODES/ 1.5KE (CASE 10) 1500W

TYPE	Breakdown Voltage		@I _T (mA)	Reverse Stand off Voltage V _{WM} (Volts)	Maximum Reverse Leakage at V _{WM} I _D (uA)	Maximum Peak Pulse Current I _{PPM} (Amps)	Maximum Clamping Voltage at I _{PPM} V _C (Volts)
	V _{BR} (Volts)						
	MIN.	MAX.					
1.5KE62	55.8	68.2	1.0	50.2	5.0	16.9	89.0
1.5KE62A	58.9	65.1	1.0	53.0	5.0	17.6	85.0
1.5KE68	61.2	74.8	1.0	55.1	5.0	15.3	98.0
1.5KE68A	64.6	71.4	1.0	58.1	5.0	16.3	92.0
1.5KE75	67.5	82.5	1.0	60.7	5.0	13.9	109
1.5KE75A	71.3	78.8	1.0	64.1	5.0	14.6	104
1.5KE82	73.8	90.2	1.0	66.4	5.0	12.7	118
1.5KE82A	77.9	86.1	1.0	70.1	5.0	13.3	113
1.5KE91	81.9	100	1.0	73.7	5.0	11.5	131
1.5KE91A	86.5	95.5	1.0	77.8	5.0	12.0	125
1.5KE100	90.0	110	1.0	81.0	5.0	10.4	144
1.5KE100A	95.0	105	1.0	85.5	5.0	10.9	137
1.5KE110	99.0	121	1.0	89.2	5.0	9.5	158
1.5KE110A	105	116	1.0	94.0	5.0	9.9	152
1.5KE120	108	132	1.0	97.2	5.0	8.7	173
1.5KE120A	114	126	1.0	102	5.0	9.1	165
1.5KE130	117	143	1.0	105	5.0	8.0	187
1.5KE130A	124	137	1.0	111	5.0	8.4	179
1.5KE150	135	165	1.0	121	5.0	7.0	215
1.5KE150A	143	158	1.0	128	5.0	7.2	207
1.5KE160	144	176	1.0	130	5.0	6.5	230
1.5KE160A	152	168	1.0	136	5.0	6.8	219
1.5KE170	153	187	1.0	138	5.0	6.1	244
1.5KE170A	162	179	1.0	145	5.0	6.4	234
1.5KE180	162	198	1.0	146	5.0	5.8	258
1.5KE180A	171	189	1.0	154	5.0	6.1	246
1.5KE200	180	220	1.0	162	5.0	5.2	287
1.5KE200A	190	210	1.0	171	5.0	5.5	274
1.5KE220	198	242	1.0	175	5.0	4.4	344
1.5KE220A	209	231	1.0	185	5.0	4.6	328
1.5KE250	225	275	1.0	202	5.0	4.2	360
1.5KE250A	237	263	1.0	214	5.0	4.4	344
1.5KE300	270	330	1.0	243	5.0	3.5	430
1.5KE300A	285	315	1.0	256	5.0	3.6	414
1.5KE350	315	385	1.0	284	5.0	3.0	504
1.5KE350A	333	368	1.0	300	5.0	3.1	482
1.5KE400	360	440	1.0	324	5.0	2.6	574
1.5KE400A	380	420	1.0	342	5.0	2.7	548
1.5KE440	396	484	1.0	356	5.0	2.4	631
1.5KE440A	418	462	1.0	376	5.0	2.5	602

- Notes :
1. V_{BR} measured after I_T applied for 300ms. I_T = square pulse or equivalent.
 2. For bidirectional use C or CA suffixs for all types (ex. 1.5KE6.8C,1.5KE440CA) electrical characteristics apply in both directions.
 3. For bidirectional types having V_{WM} of 10 volts and less, the I_D limit is doubled.
 4. All devices UL listed file# E211196.



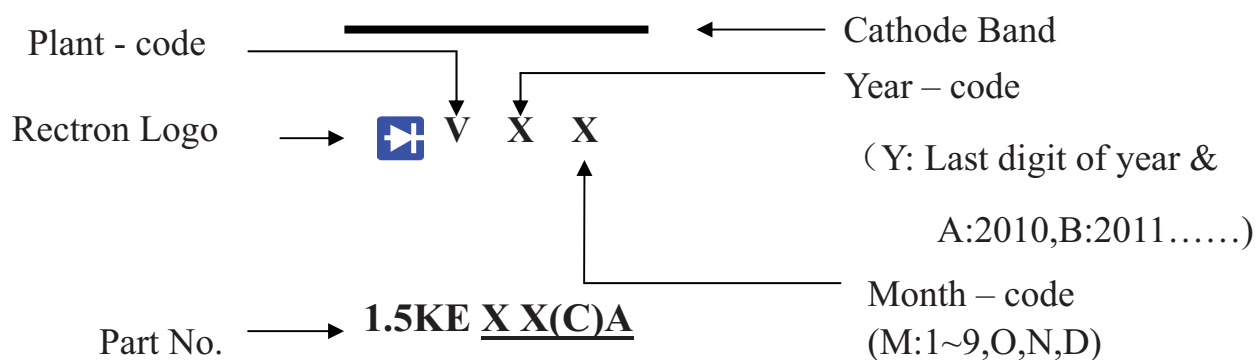


Attachment information about 1.5KEXX (C) A

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
1.5KE	-T	1,200	1,200	10.0	52	330	355*350*335	4,800	8.05

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