

ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

Type	Breakdown Voltage @ I _T (Note 1)		Reverse Stand off Voltage V _{RM}	Maximum Reverse Leakage @ V _{RM} I _R	Maximum Peak Pulse Current (Note2) I _{PPM}	Maximum Clamping Voltage @ I _{PPM} V _C	Maximum Temperature Coefficient of V _{BR} (%/°C)	
	V _{BR} (V)							I _T
	Min.	Max.						(mA)
5KP5.0C	6.40	7.30	50	5.0	10000	520	9.60	0.057
5KP5.0CA	6.40	7.00	50	5.0	10000	543	9.20	0.057
5KP6.0C	6.67	8.15	50	6.0	10000	439	11.4	0.061
5KP6.0CA	6.67	7.37	50	6.0	10000	485	10.3	0.061
5KP6.5C	7.22	8.82	50	6.5	4000	407	12.3	0.065
5KP6.5CA	7.22	7.98	50	6.5	4000	447	11.2	0.065
5KP7.0C	7.78	9.51	50	7.0	2000	378	13.3	0.068
5KP7.0CA	7.78	8.60	50	7.0	2000	417	12.0	0.068
5KP7.5C	8.33	10.2	5.0	7.5	500	350	14.3	0.073
5KP7.5CA	8.33	9.21	5.0	7.5	500	388	12.9	0.073
5KP8.0C	8.89	10.9	5.0	8.0	300	333	15.0	0.075
5KP8.0CA	8.89	9.83	5.0	8.0	300	367	13.6	0.075
5KP8.5C	9.44	11.5	5.0	8.5	100	314	15.9	0.078
5KP8.5CA	9.44	10.4	5.0	8.5	100	347	14.4	0.078
5KP9.0C	10.0	12.2	5.0	9.0	40	295	16.9	0.081
5KP9.0CA	10.0	11.1	5.0	9.0	40	325	15.4	0.081
5KP10C	11.1	13.6	5.0	10	30	266	18.8	0.084
5KP10CA	11.1	12.3	5.0	10	30	294	17.0	0.084
5KP11C	12.2	14.9	5.0	11	10	249	20.1	0.086
5KP11CA	12.2	13.5	5.0	11	10	274	18.2	0.086
5KP12C	13.3	16.3	5.0	12	10	227	22.0	0.088
5KP12CA	13.3	14.7	5.0	12	10	251	19.9	0.088
5KP13C	14.4	17.6	5.0	13	10	210	23.8	0.090
5KP13CA	14.4	15.9	5.0	13	10	232	21.5	0.090
5KP14C	15.6	19.1	5.0	14	10	194	25.8	0.092
5KP14CA	15.6	17.2	5.0	14	10	215	23.2	0.092
5KP15C	16.7	20.4	5.0	15	10	188	26.9	0.094
5KP15CA	16.7	18.5	5.0	15	10	206	24.4	0.094
5KP16C	17.8	21.8	5.0	16	10	176	28.8	0.096
5KP16CA	17.8	19.7	5.0	16	10	192	26.0	0.096
5KP17C	18.9	23.1	5.0	17	10	164	30.5	0.097
5KP17CA	18.9	20.9	5.0	17	10	181	27.6	0.097
5KP18C	20.0	24.4	5.0	18	10	155	32.2	0.098
5KP18CA	20.0	22.1	5.0	18	10	172	29.2	0.098
5KP20C	22.2	27.1	5.0	20	10	139	35.8	0.099
5KP20CA	22.2	24.5	5.0	20	10	154	32.4	0.099
5KP22C	24.4	29.8	5.0	22	10	127	39.4	0.100
5KP22CA	24.4	26.9	5.0	22	10	141	35.5	0.100
5KP24C	26.7	32.6	5.0	24	10	116	43.0	0.101
5KP24CA	26.7	29.5	5.0	24	10	128	38.9	0.101
5KP26C	28.9	35.3	5.0	26	10	107	46.6	0.101
5KP26CA	28.9	31.9	5.0	26	10	119	42.1	0.101
5KP27A	30.0	36.6	5.0	27	10	102	49.0	0.102
5KP27CA	30.0	33.3	5.0	27	10	112	44.6	0.102
5KP28C	31.1	38.0	5.0	28	10	99	50.1	0.102
5KP28CA	31.1	34.4	5.0	28	10	110	45.4	0.102
5KP30C	33.3	40.7	5.0	30	10	93	53.5	0.103
5KP30CA	33.3	36.8	5.0	30	10	103	48.4	0.103

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	V_{BR} (V)		I_T	V_{RM}	I_R	I_{PPM}	V_C
	Min.	Max.	(mA)	(V)	(μA)	(A)	(V)
5KP33C	36.7	44.9	5.0	33	10	85	59.0
5KP33CA	36.7	40.6	5.0	33	10	94	53.3
5KP36C	40.0	48.9	5.0	36	10	78	64.3
5KP36CA	40.0	44.2	5.0	36	10	86	58.1
5KP40C	44.4	54.3	5.0	40	10	70	71.4
5KP40CA	44.4	49.1	5.0	40	10	78	64.5
5KP43C	47.8	58.4	5.0	43	10	65	76.7
5KP43CA	47.8	52.8	5.0	43	10	72	69.4
5KP45C	50.0	61.1	5.0	45	10	62	80.3
5KP45CA	50.0	55.3	5.0	45	10	69	72.7
5KP48C	53.3	65.2	5.0	48	10	58	85.5
5KP48CA	53.3	58.9	5.0	48	10	65	77.4
5KP51C	56.7	69.3	5.0	51	10	55	91.1
5KP51CA	56.7	62.7	5.0	51	10	61	82.4
5KP54C	60.0	73.3	5.0	54	10	52	96.3
5KP54CA	60.0	66.3	5.0	54	10	57	87.1
5KP58C	64.4	78.7	5.0	58	10	49	103
5KP58CA	64.4	71.2	5.0	58	10	53	94
5KP60C	66.7	81.5	5.0	60	10	47	107
5KP60CA	66.7	73.7	5.0	60	10	52	97
5KP64C	71.1	96.9	5.0	64	10	44	114
5KP64CA	71.1	78.6	5.0	64	10	49	103
5KP70C	77.6	95.1	5.0	70	10	40	125
5KP70CA	77.6	86.0	5.0	70	10	44	113
5KP75C	83.3	102	5.0	75	10	37	134
5KP75CA	83.3	92.1	5.0	75	10	41	121
5KP78C	86.7	106	5.0	78	10	36	139
5KP78CA	86.7	95.8	5.0	78	10	40	126
5KP85C	94.4	115	5.0	85	10	33	151
5KP85CA	94.4	104	5.0	85	10	36	137
5KP90C	100	122	5.0	90	10	31	160
5KP90CA	100	111	5.0	90	10	34	146
5KP100C	111	136	5.0	100	10	28	179
5KP100CA	111	123	5.0	100	10	31	162
5KP110C	122	149	5.0	110	10	26	196
5KP110CA	122	135	5.0	110	10	28	177
5KP120C	133	163	5.0	120	10	24	211
5KP120CA	133	147	5.0	120	10	26	194
5KP150C	167	204	5.0	150	10	19	263
5KP150CA	167	184	5.0	150	10	21	242
5KP160C	178	217	5.0	160	10	18	281
5KP160CA	178	196	5.0	160	10	19	258
5KP170C	189	231	5.0	170	10	17	298
5KP170CA	189	209	5.0	170	10	18	274
5KP180C	200	244	5.0	180	10	16	316
5KP180CA	200	221	5.0	180	10	17	290

Note:

(1) V_{BR} measured after I_T applied for 300 $\mu s.$, I_T = square wave pulse or equivalent.

RATING AND CHARACTERISTIC CURVES (5KP5.0C SERIES)

FIG.1 - PULSE DERATING CURVE

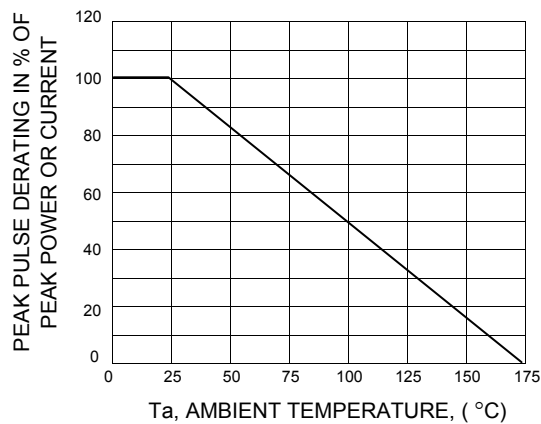


FIG.2 - PULSE WAVEFORM

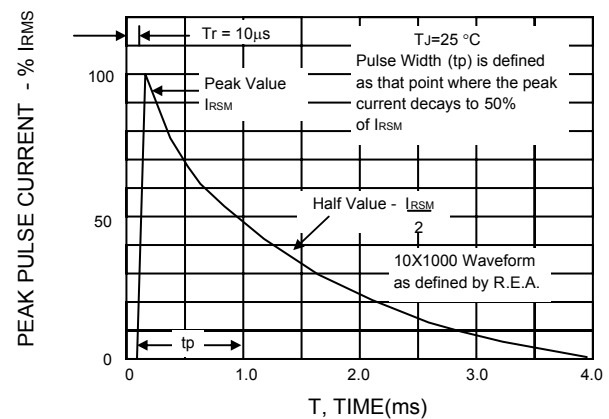


FIG.3 - STEADY STATE POWER DERATING

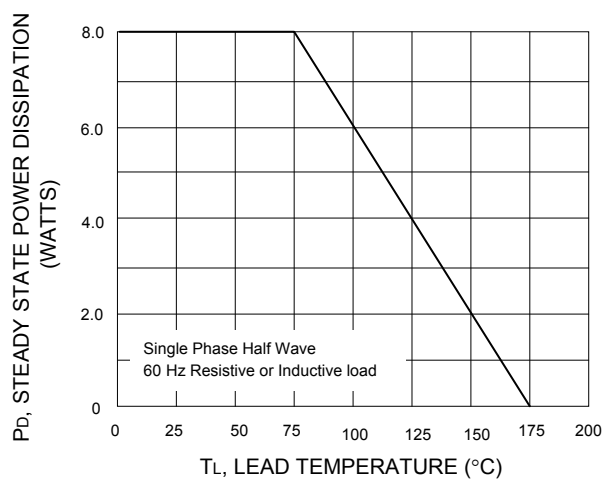


FIG.4 - PULSE RATING CURVE

