

# Transient Voltage Suppressors (5KP Series)

5000 Watt Peak Power Rating/5KP

Type Number See Notes	V <sub>WM</sub>	V <sub>BR</sub> MIN @I <sub>T</sub>	I <sub>T</sub>	I <sub>D</sub> @ V <sub>WM</sub>	V <sub>C</sub> @ MAX I <sub>PP</sub>	I <sub>PP</sub>	ΔV <sub>BR</sub>
	V	VDC	mADC	μA DC	V	A	mV/°C
5KP5.0	5.0	6.40	50	2000	9.6	520	4.0
5KP5.0A	5.0	6.40	50	2000	9.2	543	4.0
5KP6.0	6.0	6.67	50	5000	11.4	439	4.0
5KP6.0A	6.0	6.67	50	5000	10.3	485	4.0
5KP6.5	6.5	7.22	50	2000	12.3	407	4.0
5KP6.5A	6.5	7.22	50	2000	11.2	447	4.0
5KP7.0	7.0	7.78	50	1000	13.3	378	5.0
5KP7.0A	7.0	7.78	50	1000	12.0	417	5.0
5KP7.5	7.5	8.33	5	250	14.3	350	6.0
5KP7.5A	7.5	8.33	5	250	12.9	388	6.0
5KP8.0	8.0	8.89	5	150	15.0	333	6.0
5KP8.0A	8.0	8.89	5	150	13.6	367	6.0
5KP8.5	8.5	9.44	5	50	15.9	314	7.0
5KP8.5A	8.5	9.44	5	50	14.4	347	7.0
5KP9.0	9.0	10.0	5	20	16.9	295	8.0
5KP9.0A	9.0	10.0	5	20	15.4	325	8.0
5KP10	10	11.1	5	15	18.8	266	9.0
5KP10A	10	11.1	5	15	17.0	294	9.0
5KP11	11	12.2	5	10	20.1	249	10
5KP11A	11	12.2	5	10	18.2	274	10
5KP12	12	13.3	5	10	22.0	227	11
5KP12A	12	13.3	5	10	19.9	251	11
5KP13	13	14.4	5	10	23.8	210	12
5KP13A	13	14.4	5	10	21.5	232	12
5KP14	14	15.6	5	10	25.8	194	13
5KP14A	14	15.6	5	10	23.2	215	13
5KP15	15	16.7	5	10	26.9	188	15
5KP15A	15	16.7	5	10	24.4	206	15
5KP16	16	17.8	5	10	28.8	176	18
5KP16A	16	17.8	5	10	26.0	192	16
5KP17	17	18.9	5	10	30.5	164	19
5KP17A	17	18.9	5	10	27.6	181	18
5KP18	18	20.0	5	10	32.2	155	20
5KP18A	18	20.0	5	10	29.2	172	19
5KP20	20	22.2	5	10	35.8	139	24
5KP20A	20	22.2	5	10	32.4	154	22
5KP22	22	24.4	5	10	39.4	127	27
5KP22A	22	24.4	5	10	35.5	141	24
5KP24	24	26.7	5	10	43.0	116	30
5KP24A	24	26.7	5	10	38.9	128	27

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	V	VDC	mADC	μA DC	V	A	mV/°C
5KP26	26	28.9	5	10	46.6	107	33
5KP26A	26	28.9	5	10	42.1	119	29
5KP28	28	31.1	5	10	50.1	99	34
5KP28A	28	31.1	5	10	45.5	110	30
5KP30	30	33.3	5	10	53.5	93	38
5KP30A	30	33.3	5	10	48.4	103	35
5KP33	33	36.7	5	10	59.0	85	41
5KP33A	33	36.7	5	10	53.3	94	38
5KP36	36	40.0	5	10	64.3	78	45
5KP36A	36	40.0	5	10	58.1	86	40
5KP40	40	44.4	5	10	71.4	70	50
5KP40A	40	44.4	5	10	64.5	78	45
5KP43	43	47.8	5	10	76.7	65	54
5KP43A	43	47.8	5	10	69.4	72	49
5KP45	45	50.0	5	10	80.3	62	57
5KP45A	45	50.0	5	10	72.7	69	51
5KP48	48	53.3	5	10	85.5	58	62
5KP48A	48	53.3	5	10	77.4	65	55
5KP51	51	56.7	5	10	91.1	55	65
5KP51A	51	56.7	5	10	82.4	61	60
5KP54	54	60.0	5	10	96.3	52	70
5KP54A	54	60.0	5	10	87.1	57	64
5KP58	58	64.4	5	10	103	49	77
5KP58A	58	64.4	5	10	93.6	53	69
5KP60	60	66.7	5	10	107	47	79
5KP60A	60	66.7	5	10	96.8	52	70
5KP64	64	71.1	5	10	114	44	85
5KP64A	64	71.1	5	10	103	49	75
5KP70	70	77.8	5	10	125	40	93
5KP70A	70	77.8	5	10	113	44	84
5KP75	75	83.3	5	10	134	37	100
5KP75A	75	83.3	5	10	121	41	90
5KP78	78	86.7	5	10	139	36	104
5KP78A	78	86.7	5	10	126	40	94
5KP85	85	94.4	5	10	151	33	113
5KP85A	85	94.4	5	10	137	36	102
5KP90	90	100	5	10	160	31	120
5KP90A	90	100	5	10	146	34	109
5KP100	100	111	5	10	179	28	134
5KP100A	100	111	5	10	162	31	122
5KP110	110	122	5	10	196	26	147
5KP110A	110	122	5	10	177	28	132

OPERATING/STORAGE TEMPERATURE -55°C to +175°C

- Notes: 1) Add Suffix 'C' or 'CA' after Type Number for Bi-directional devices.  
 2) Devices are selected according to reverse "standoff voltage" V<sub>WM</sub> which should be > the dc or continuous peak operating voltage level.  
 3) Leakage current specification (I<sub>D</sub>) is doubled for 'C' and 'CA' devices with V<sub>WM</sub> ratings < 10 volts.

**SYMBOLS AND ABBREVIATIONS:**

V<sub>WM</sub> = Rated Stand-Off Voltage  
 I<sub>PP</sub> = Peak Pulse Current  
 V<sub>C</sub>(Max) = Maximum Clamping Voltage

V<sub>BR</sub> = Breakdown Voltage  
 I<sub>T</sub> = Test Current  
 I<sub>D</sub> = Reverse Leakage  
 ΔV<sub>BR</sub> = Max. Temp. Coefficient of V<sub>BR</sub>(TA = -55 to 100°C)