

# Transient Voltage Suppressors (P6KE Series)

600 Watt Peak Power Rating/DO-15



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>	MAX V <sub>C</sub> @ I <sub>PP</sub>	I <sub>PP</sub>	ΔV <sub>BR</sub>
	V	VDC	mADC	μA DC	V	A	%/°C
P6KE6.8	5.50	6.12	10	1000	10.8	56	.057
P6KE7.5	6.05	6.75	10	500	11.7	51	.061
P6KE8.2	6.63	7.38	10	200	12.5	48	.065
P6KE9.1	7.37	8.19	1	50	13.8	44	.068
P6KE10	8.10	9.0	1	10	15.0	40	.073
P6KE11	8.92	9.9	1	5	16.2	37	.075
P6KE12	9.72	10.8	1	5	17.3	35	.078
P6KE13	10.5	11.7	1	5	19.0	32	.081
P6KE15	12.1	13.5	1	5	22.0	27	.084
P6KE16	12.9	14.4	1	5	23.5	26	.086
P6KE18	14.5	16.2	1	5	26.5	23	.088
P6KE20	16.2	18.0	1	5	29.1	21	.090
P6KE22	17.8	19.8	1	5	31.9	19	.092
P6KE24	19.4	21.6	1	5	34.7	17	.094
P6KE27	21.8	24.3	1	5	39.1	15	.096
P6KE30	24.3	27.0	1	5	43.5	14	.097
P6KE33	26.8	29.7	1	5	47.7	12.6	.098
P6KE36	29.1	32.4	1	5	52.0	11.6	.099
P6KE39	31.6	35.1	1	5	56.4	10.6	.100
P6KE43	34.8	38.7	1	5	61.9	9.6	.101
P6KE47	38.1	42.3	1	5	67.8	8.8	.101
P6KE51	41.3	45.9	1	5	73.5	8.2	.102
P6KE56	45.4	50.4	1	5	80.5	7.4	.103
P6KE62	50.2	55.8	1	5	89.0	6.8	.104
P6KE68	55.1	61.2	1	5	98.0	6.1	.104
P6KE75	60.7	67.5	1	5	108	5.5	.105
P6KE82	66.4	73.8	1	5	118	5.1	.105
P6KE91	73.7	81.9	1	5	131	4.5	.106
P6KE100	81.0	90.0	1	5	144	4.2	.106
P6KE110	89.2	99.0	1	5	158	3.8	.107
P6KE120	97.2	108	1	5	173	3.5	.107
P6KE130	105	117	1	5	187	3.2	.107
P6KE150	121	135	1	5	215	2.8	.108
P6KE160	130	144	1	5	230	2.6	.108
P6KE170	138	153	1	5	244	2.5	.108
P6KE180	146	162	1	5	258	2.3	.108
P6KE200	162	180	1	5	287	2.1	.108

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>	MAX V <sub>C</sub> @ I <sub>PP</sub>	I <sub>PP</sub>	ΔV <sub>BR</sub>
	V	VDC	mADC	μA DC	V	A	%/°C
P6KE6.8A	5.80	6.45	10	1000	10.5	57	.057
P6KE7.5A	6.40	7.13	10	500	11.3	53	.061
P6KE8.2A	7.02	7.79	10	200	12.1	50	.065
P6KE9.1A	7.78	8.65	1	50	13.4	45	.068
P6KE10A	8.55	9.5	1	10	14.5	41	.073
P6KE11A	9.40	10.5	1	5	15.6	38	.075
P6KE12A	10.2	11.4	1	5	16.7	36	.078
P6KE13A	11.1	12.4	1	5	18.2	33	.081
P6KE15A	12.8	14.3	1	5	21.2	28	.084
P6KE16A	13.6	15.2	1	5	22.5	27	.086
P6KE18A	15.3	17.1	1	5	25.2	24	.088
P6KE20A	17.1	19.0	1	5	27.7	22	.090
P6KE22A	18.8	20.9	1	5	30.6	20	.092
P6KE24A	20.5	22.8	1	5	33.2	18	.094
P6KE27A	23.1	25.7	1	5	37.5	16	.096
P6KE30A	25.6	28.5	1	5	41.4	14.4	.097
P6KE33A	28.2	31.4	1	5	45.7	13.2	.098
P6KE36A	30.8	34.2	1	5	49.9	12	.099
P6KE39A	33.3	37.1	1	5	53.9	11.2	.100
P6KE43A	36.8	40.9	1	5	59.3	10.1	.101
P6KE47A	40.2	44.7	1	5	64.8	9.3	.101
P6KE51A	43.6	48.5	1	5	70.1	8.6	.102
P6KE56A	47.8	53.2	1	5	77.0	7.8	.103
P6KE62A	53.0	58.9	1	5	85.0	7.1	.104
P6KE68A	58.1	64.6	1	5	92.0	6.5	.104
P6KE75A	64.1	71.3	1	5	103	5.8	.105
P6KE82A	70.0	77.9	1	5	113	5.3	.105
P6KE91A	77.8	86.5	1	5	125	4.8	.106
P6KE100A	85.5	95.0	1	5	137	4.4	.106
P6KE110A	94.0	105	1	5	152	3.9	.107
P6KE120A	102	114	1	5	165	3.6	.107
P6KE130A	111	124	1	5	179	3.3	.107
P6KE150A	128	143	1	5	207	2.9	.108
P6KE160A	136	152	1	5	219	2.7	.108
P6KE170A	145	161	1	5	234	2.6	.108
P6KE180A	154	171	1	5	246	2.4	.108
P6KE200A	171	190	1	5	274	2.2	.108

Notes: 1) Add Suffix 'C' or 'CA' after Type Number for Bi-directional devices.

2) Reverse leakage current (I<sub>D</sub>) is doubled for 'C' and 'CA' devices with V<sub>WM</sub> ratings < 10 volts.

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

**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)