



# Transient Voltage Suppressors

(continued)

## Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

Uni-directional Bi-directional (C) Device	Reverse Stand-off Voltage $V_{RWM}$ (V)	Breakdown Voltage $V_{BR}$ (V)		Test Current $I_T$ (mA)	Clamping Voltage @ $I_{PPM}$ $V_C$ (V)	Peak Pulse Current $I_{PPM}$ (A)	Reverse Leakage $V_{RWM}$ $I_R$ ( $\mu\text{A}$ )*
		Min	Max				
1V5KE6V8(C)A	5.80	6.45	7.14	10	10.5	143	1000
1V5KE7V5(C)A	6.40	7.13	7.88	10	11.3	133	500
1V5KE8V2(C)A	7.02	7.79	8.61	10	12.1	124	200
1V5KE9V1(C)A	7.78	8.65	9.55	1	13.4	112	50
1V5KE10(C)A	8.55	9.50	10.5	1	14.5	103	10
1V5KE11(C)A	9.40	10.5	11.6	1	15.6	96.2	5
1V5KE12(C)A	10.2	11.4	12.6	1	16.7	90.0	5
1V5KE13(C)A	11.1	12.4	13.7	1	18.2	82.0	5
1V5KE15(C)A	12.8	14.3	15.8	1	21.2	71.0	5
1V5KE16(C)A	13.6	15.2	16.8	1	22.5	67.0	5
1V5KE18(C)A	15.3	17.1	18.9	1	26.2	59.5	5
1V5KE20(C)A	17.1	19.0	21.0	1	27.7	54.2	5
1V5KE22(C)A	18.8	20.9	23.1	1	30.6	49.0	5
1V5KE24(C)A	20.5	22.8	25.2	1	33.2	45.2	5
1V5KE27(C)A	23.1	25.7	28.4	1	37.5	40.0	5
1V5KE30(C)A	25.6	28.5	31.5	1	41.4	36.2	5
1V5KE33(C)A	28.2	31.4	34.7	1	45.7	33.0	5
1V5KE36(C)A	30.8	34.2	37.8	1	49.9	30.1	5
1V5KE39(C)A	33.3	37.1	41.0	1	53.9	28.0	5
1V5KE43(C)A	36.8	40.9	45.2	1	59.3	25.3	5
1V5KE47(C)A	40.2	44.7	49.4	1	64.8	23.2	5
1V5KE51(C)A	43.6	48.5	53.6	1	70.1	21.4	5
1V5KE56(C)A	47.8	53.2	58.8	1	77.0	19.5	5
1V5KE62(C)A	53.0	58.9	65.1	1	85.0	17.7	5
1V5KE68(C)A	58.1	64.6	71.4	1	92.0	16.3	5
1V5KE75(C)A	64.1	71.3	78.8	1	104.0	14.6	5
1V5KE82(C)A	70.1	77.9	86.1	1	113.0	13.3	5
1V5KE91(C)A	77.8	86.5	95.5	1	125.0	12.0	5
1V5KE100(C)A	85.5	95.0	105.0	1	137.0	11.0	5
1V5KE110(C)A	94.0	106.0	116.0	1	152.0	9.9	5
1V5KE120(C)A	102.0	114.0	126.0	1	165.0	9.1	5
1V5KE130(C)A	111.0	124.0	137.0	1	179.0	8.4	5
1V5KE150(C)A	128.0	143.0	158.0	1	207.0	7.2	5
1V5KE160(C)A	136.0	152.0	168.0	1	219.0	6.8	5
1V5KE170(C)A	145.0	162.0	179.0	1	234.0	6.4	5
1V5KE180(C)A	154.0	171.0	189.0	1	246.0	6.1	5
1V5KE200(C)A	171.0	190.0	210.0	1	274.0	5.5	5
1V5KE220(C)A	185.0	209.0	231.0	1	328.0	4.6	5
1V5KE250(C)A	214.0	237.0	263.0	1	344.0	4.5	5
1V5KE300(C)A	256.0	285.0	315.0	1	414.0	3.8	5
1V5KE350(C)A	300.0	333.0	368.0	1	482.0	3.2	5
1V5KE400(C)A	342.0	380.0	420.0	1	548.0	2.8	5
1V5KE440(C)A	376.0	418.0	462.0	1	602.0	2.6	5

\* For bidirectional parts with  $V_{RWM} < 10\text{V}$ , the  $I_R$  max limit is doubled.

1V5KE6V8(C)A - 1V5KE440(C)A

Typical Characteristics

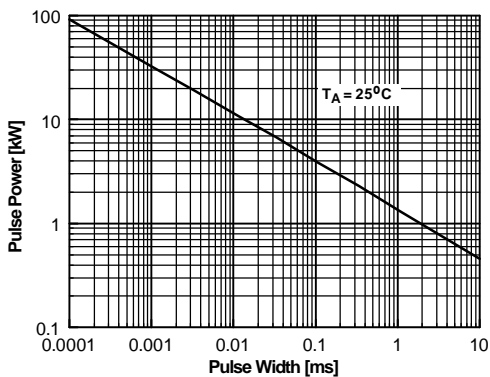


Figure 1. Peak Pulse Power Rating Curve

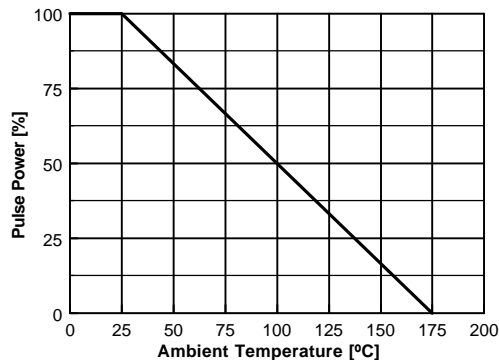


Figure 2. Pulse Derating Curve

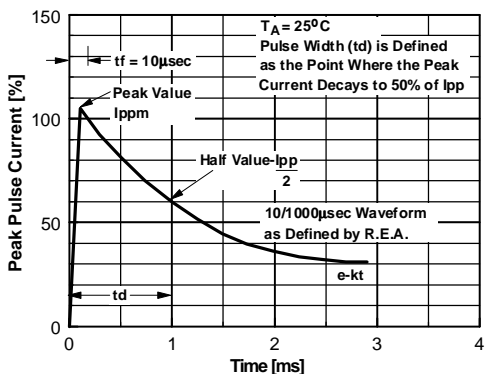


Figure 3. Pulse Waveform

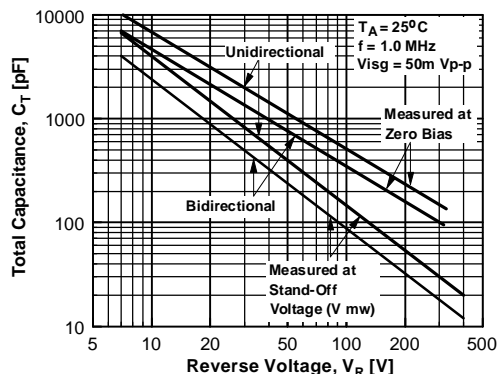


Figure 4. Total Capacitance

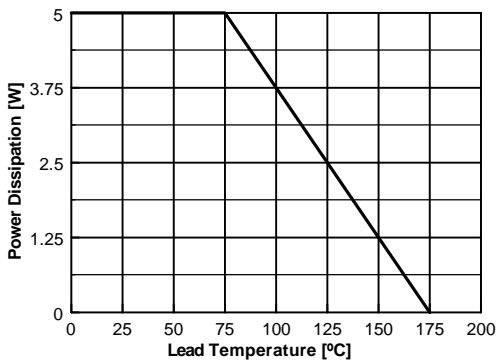


Figure 5. Steady State Power Derating Curve

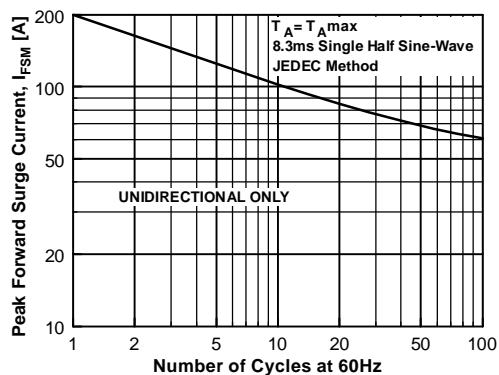


Figure 6. Non-Repetitive Surge Current

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