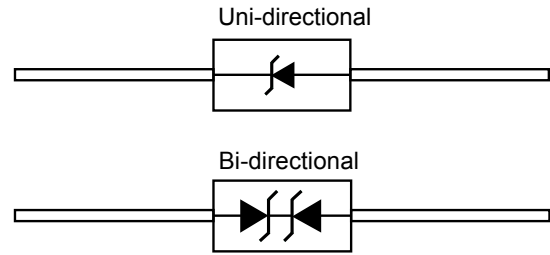


## 600W Axial Leaded Transient Voltage Suppressor

### Description

Protect sensitive electronics against voltage transients induced by inductive load switching and lightning. Ideal for the protection of I/O interfaces, Vcc bus, and other integrated circuits.



### Feature

- Breakdown voltage range 6.8 to 440 V
- Uni-directional and Bi-directional
- Glass passivated junction
- Excellent clamping capability
- 100% surge tested

### Electrical characteristics @Tamb 25°C

Part Number (Uni)	Part Number (Bi)	Reverse Stand off Voltage $V_R$ (V)	Breakdown Voltage $V_{BR} @ I_T$ (V)		Test Current $I_T$ (mA)	Maximum Clamping Voltage $V_C @ I_{PP}$ (V)	Maximum Peak Pulse Current $I_{PP}$ (A)	Maximum Reverse Leakage $I_R @ V_R$ ( $\mu A$ )
			MIN	MAX				
P6KE6.8A	P6KE6.8CA	5.80	6.45	7.14	10.0	10.5	57.0	1000.0
P6KE7.5A	P6KE7.5CA	6.40	7.13	7.88	10.0	11.3	53.0	500.0
P6KE8.2A	P6KE8.2CA	7.02	7.79	8.61	10.0	12.1	50.0	200.0
P6KE9.1A	P6KE9.1CA	7.78	8.65	9.55	1.0	13.4	45.0	50.0
P6KE10A	P6KE10CA	8.55	9.50	10.50	1.0	14.5	41.0	10.0
P6KE11A	P6KE11CA	9.40	10.50	11.60	1.0	15.6	38.0	5.0
P6KE12A	P6KE12CA	10.20	11.40	12.60	1.0	16.7	36.0	5.0
P6KE13A	P6KE13CA	11.10	12.40	13.70	1.0	18.2	33.0	5.0
P6KE15A	P6KE15CA*	12.80	14.30	15.80	1.0	21.2	28.0	5.0
P6KE16A	P6KE16CA	13.60	15.20	16.80	1.0	22.5	27.0	5.0
P6KE18A	P6KE18CA	15.30	17.10	18.90	1.0	25.2	24.0	5.0
P6KE20A	P6KE20CA	17.10	19.00	21.00	1.0	27.7	22.0	5.0
P6KE22A	P6KE22CA	18.80	20.90	23.10	1.0	30.6	20.0	5.0
P6KE24A	P6KE24CA	20.50	22.80	25.20	1.0	33.2	18.0	5.0
P6KE27A	P6KE27CA	23.10	25.70	28.40	1.0	37.5	16.0	5.0

Part Number (Uni)	Part Number (Bi)	Reverse Stand off Voltage $V_R$ (V)	Breakdown Voltage $V_{BR} @ I_T$ (V)		Test Current $I_T$ (mA)	Maximum Clamping Voltage $V_C @ I_{PP}$ (V)	Maximum Peak Pulse Current $I_{PP}$ (A)	Maximum Reverse Leakage $I_R @ V_R$ ( $\mu$ A)
			MIN	MAX				
P6KE30A	P6KE30CA	25.60	28.50	31.50	1.0	41.4	14.4	5.0
P6KE33A	P6KE33CA	28.20	31.40	34.70	1.0	45.7	13.2	5.0
P6KE36A	P6KE36CA	30.80	34.20	37.80	1.0	49.9	12.0	5.0
P6KE39A	P6KE39CA	33.30	37.10	41.00	1.0	53.9	11.2	5.0
P6KE43A	P6KE43CA	36.80	40.90	45.20	1.0	59.3	10.0	5.0
P6KE47A	P6KE47CA	40.20	44.70	49.40	1.0	64.8	9.3	5.0
P6KE51A	P6KE51CA*	43.60	48.50	53.60	1.0	70.1	8.6	5.0
P6KE56A	P6KE56CA	47.8	53.2	58.8	1.0	77.0	7.8	5.0
P6KE62A	P6KE62CA	53.0	58.9	65.1	1.0	85.0	7.1	5.0
P6KE68A	P6KE68CA	58.1	64.6	71.4	1.0	92.0	6.5	5.0
P6KE75A	P6KE75CA	64.1	71.3	78.8	1.0	103.0	5.8	5.0
P6KE82A	P6KE82CA	70.1	77.9	86.1	1.0	113.0	5.3	5.0
P6KE91A	P6KE91CA	77.8	86.5	95.5	1.0	125.0	4.8	5.0
P6KE100A	P6KE100CA	85.5	95.5	105.0	1.0	137.0	4.4	5.0
P6KE110A	P6KE110CA	94.0	105.0	116.0	1.0	152.0	4.0	5.0
P6KE120A	P6KE120CA	102.0	114.0	126.0	1.0	165.0	3.6	5.0
P6KE130A	P6KE130CA	111.0	124.0	137.0	1.0	179.0	3.3	5.0
P6KE150A	P6KE150CA	128.0	143.0	158.0	1.0	207.0	2.9	5.0
P6KE160A	P6KE160CA	136.0	152.0	168.0	1.0	219.0	2.7	5.0
P6KE170A	P6KE170CA	145.0	162.0	179.0	1.0	234.0	2.6	5.0
P6KE180A	P6KE180CA	154.0	171.0	189.0	1.0	246.0	2.4	5.0
P6KE200A	P6KE200CA	171.0	190.0	210.0	1.0	274.0	2.2	5.0
P6KE220A	P6KE220CA	185.0	209.0	231.0	1.0	328.0	1.83	5.0
P6KE250A	P6KE250CA	214.0	237.0	263.0	1.0	344.0	1.75	5.0
P6KE300A	P6KE300CA	256.0	285.0	315.0	1.0	414.0	1.45	5.0
P6KE350A	P6KE350CA	300.0	332.0	368.0	1.0	482.0	1.25	5.0
P6KE400A	P6KE400CA	342.0	380.0	420.0	1.0	548.0	1.1	5.0
P6KE440A	P6KE440CA	376.0	418.0	462.0	1.0	602.0	1.0	5.0

Suffix 'C' denotes Bi-directional device. Suffix 'A' denotes 5% tolerance device, no suffix denotes a 10% tolerance device.

1. For Bi-directional devices having  $V_R$  of 10 volts and below, the IR limit is doubled.
2.  $V_F = 3.5$  Volts max. for devices of  $V_R < 100V$ , and  $V_F = 5.0$  Volts max for devices of  $V_R > 100V$ .  $I_F = 50A$ , 300  $\mu s$  square wave.

\* Preferred voltages.

## Ratings and Characteristic Curves $T_A=25^\circ C$ unless otherwise noted

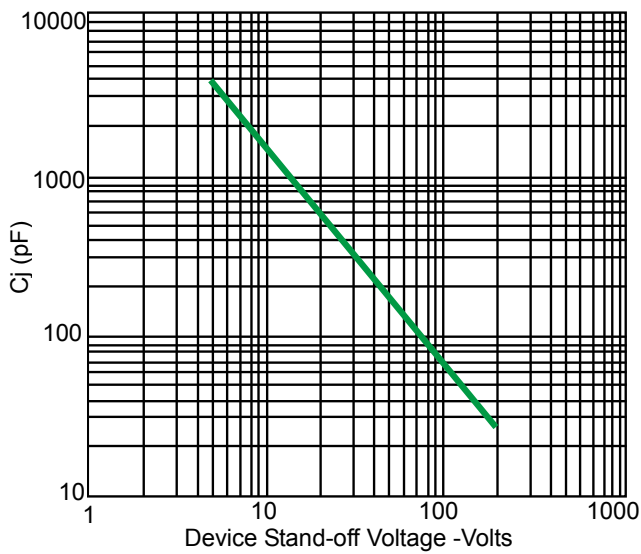


Figure 1 - Capacitance vs. Stand-off Voltage

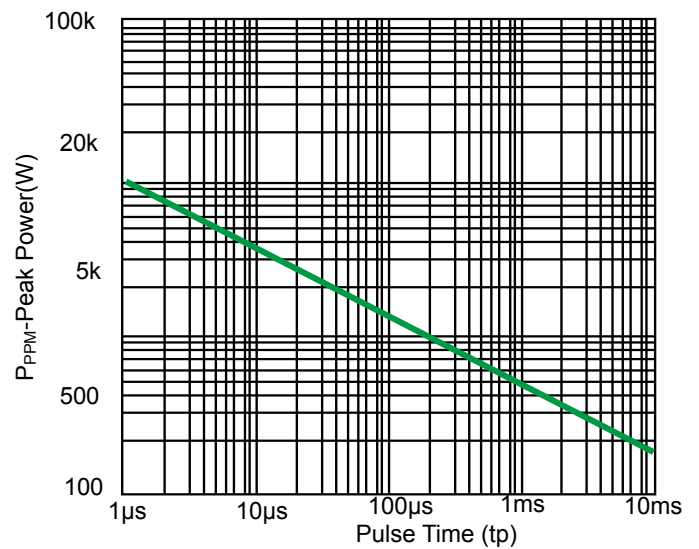
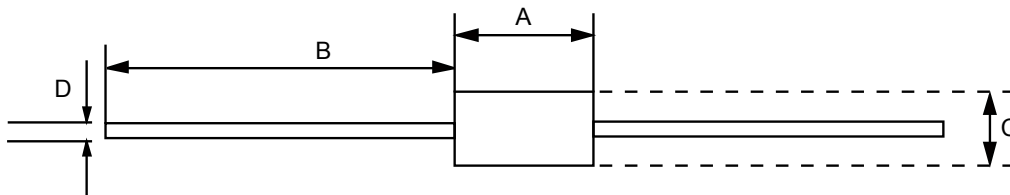



Figure 2 – Peak Pulse Power vs. Pulse Time

## Product dimension (DO-15)



Dim	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.240	0.255	6.1	6.47
B	1.000	--	25.4	--
C	0.120	0.128	3.05	3.25
D	0.030	0.034	0.76	0.86


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