



Micro Commercial Components

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# 15KP17(C)A THRU 15KP280(C)A

## Features

- Low incremental surge resistance
- 15000 Watts Peak Pulse Power Capability on 10/1000us waveform
- Glass passivated junction
- Plastic package Devices
- High temperature soldering guaranteed
- Fast response time: typically less than 1.0ps from 0 Volts to BV, bidirectional less than 10ns
- UL Recognized File # E222849

## 15000 Watts Transient Voltage Suppressor 17 to 280 Volt

## Mechanical Data

- Polarity: Color band denotes cathode except Bipolar
- Weight: 0.07 ounce, 2.5 grams
- Terminals: plated Axial leads, solderable per MIL-STD-750, Methode 2026
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

## Maximum Ratings

- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C
- Minimum 15000 watts of Peak Pulse Power Capability on 10/1000us waveform
- 8 Watts of Steady State Power Dissipation at  $R_L=75^\circ\text{C}$ , Lead lengths .375", (9.5mm)
- Forward Surge Current: 400 Amps, 1/20 sec @ 25°C

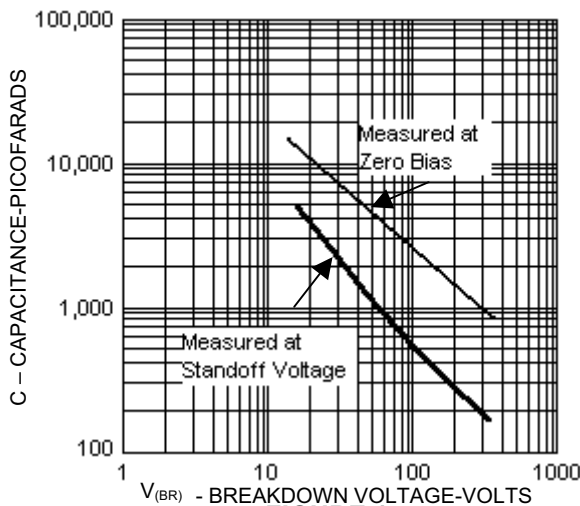
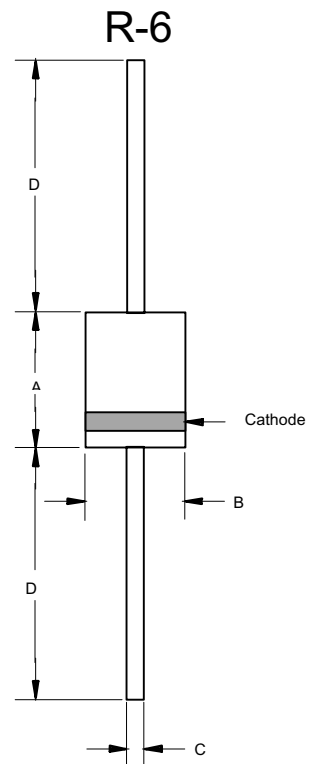


FIGURE 1  
Typical Capacitance vs. Breakdown Voltage

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.340	.360	8.60	9.10	
B	.340	.360	8.60	9.10	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

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## ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}$	BREAKDOWN VOLTAGE $V_{BR}$ MIN. @IT	BREAKDOWN VOLTAGE $V_{BR}$ MAX. @IT	TEST CURRENT $I_T$ (mA)	PEAK PULSE CURRENT $I_{pp}$	MAXIMUM REVERSE LEAKAGE $I_R$ @ $V_{RWM}$	CLAMPING VOLTAGE $V_C$ @IPP
UNI-POLAR	BI-POLAR	V	V	V	mA	A	$\mu A$	V
15KPA17A	15KPA17CA	17	18.9	20.79	50	512	5000	29.3
15KPA18A	15KPA18CA	18	20.0	22.01	50	485	5000	30.9
15KPA20A	15KPA20CA	20	22.2	24.46	20	437	1500	34.3
15KPA22A	15KPA22CA	22	24.4	26.91	10	404	500	37.1
15KPA24A	15KPA24CA	24	26.7	29.35	5	369	150	40.5
15KPA26A	15KPA26CA	26	28.9	31.8	5	347	50	44
15KPA28A	15KPA28CA	28	31.1	34.24	5	316	25	47.5
15KPA30A	15KPA30CA	30	33.3	36.69	5	296	15	50.7
15KPA33A	15KPA33CA	33	36.7	40.4	5	274	10	54.8
15KPA36A	15KPA36CA	36	40.0	44	5	251	10	59.7
15KPA40A	15KPA40CA	40	44.4	48.9	5	228	10	65.8
15KPA43A	15KPA43CA	43	47.8	52.6	5	215	10	69.7
15KPA45A	15KPA45CA	45	50.0	55	5	205	10	73
15KPA48A	15KPA48CA	48	53.3	58.7	5	193	10	77.7
15KPA51A	15KPA51CA	51	56.7	62.4	5	181	10	82.8
15KPA54A	15KPA54CA	54	60.0	66	5	171	10	87.5
15KPA58A	15KPA58CA	58	64.4	70.9	5	160	10	94
15KPA60A	15KPA60CA	60	66.7	73.4	5	154	10	97.3
15KPA64A	15KPA64CA	64	71.1	78.3	5	144	10	104
15KPA70A	15KPA70CA	70	77.8	85.6	5	132	10	114
15KPA75A	15KPA75CA	75	83.3	91.7	5	123	10	122
15KPA78A	15KPA78CA	78	86.7	95.4	5	119	10	126
15KPA85A	15KPA85CA	85	94.4	104	5	109	10	137
15KPA90A	15KPA90CA	90	100.0	110.1	5	103	10	146
15KPA100A	15KPA100CA	100	111.0	122.3	5	93	10	162
15KPA110A	15KPA110CA	110	122.0	134.5	5	84	10	178
15KPA120A	15KPA120CA	120	133.0	146.8	5	78	10	193
15KPA130A	15KPA130CA	130	144.0	159	5	72	10	209
15KPA150A	15KPA150CA	150	167.0	183.5	5	62	10	243
15KPA160A	15KPA160CA	160	178.0	195.7	5	58	10	259
15KPA170A	15KPA170CA	170	189.0	207.9	5	55	10	275
15KPA180A	15KPA180CA	180	200.0	220.1	5	52	10	291
15KPA200A	15KPA200CA	200	222.0	244.6	5	47	10	322
15KPA220A	15KPA220CA	220	245.0	269.1	5	42	10	356
15KPA240A	15KPA240CA	240	267.0	293.5	5	39	10	388
15KPA260A	15KPA260CA	260	289.0	318	5	36	10	419
15KPA280A	15KPA280CA	280	311.0	342.4	5	33	10	452

For bi-directional type having  $V_{RWM}$  of 30 volts and less , the  $I_R$  limit is double.

For parts without A , the  $V_{BR}$  is  $\pm 10\%$ .



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