



Micro Commercial Components  
 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# 15KP17A THRU 15KP280A

## 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

## Mechanical Data

- Case: Molded Plastic over glass passivated junction
- Polarity: Color band denotes positive end (cathode) except Bipolar
- Weight: 0.07 ounce, 2.5 grams
- Terminals: plated Axial leads, solderable per MIL-STD-750, Methode 2026

## 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

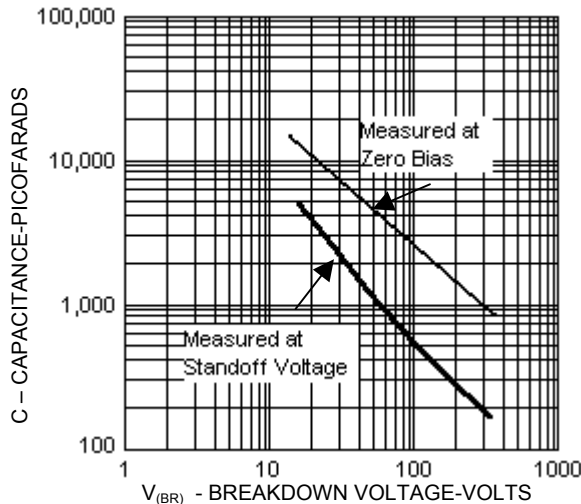
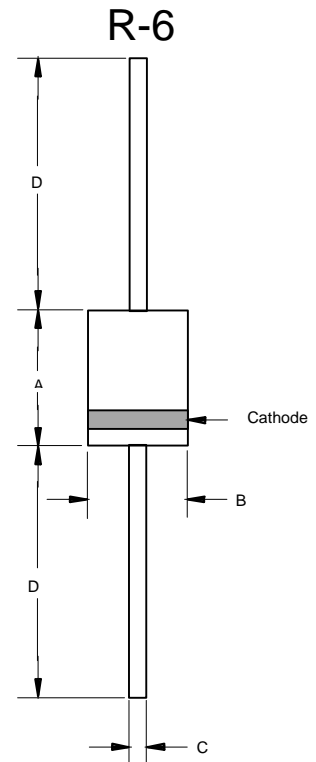


FIGURE 1

Typical Capacitance vs. Breakdown Voltage

## 15000 Watts Transient Voltage Suppressor 17 to 280 Volt



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	---	

# 15KP17A THRU 15KP280A

## ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	REVERSE STAND-OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN.@ $I_T$	TEST CURRENT $I_T(mA)$	MAXIMUM REVERSE LEAKAGE $I_D @ V_{RWM}$	MAXIMUM CLAMPING VOLTAGE $V_C @ I_{PP}$	MAXIMUM PEAK PULSE CURRENT $I_{PP}$
	V	V	mA	( $\mu A$ )	V	A
15KP17A	17	18.9	50	5000	29.3	512
15KP18A	18	20.0	50	5000	30.9	485
15KP20A	20	22.2	20	1500	34.3	437
15KP22A	22	24.4	10	500	37.1	404
15KP24A	24	26.7	5	150	40.5	369
15KP26A	26	28.9	5	50	44.0	347
15KP28A	28	31.1	5	25	47.5	316
15KP30A	30	33.3	5	15	50.7	296
15KP33A	33	36.7	5	10	54.8	274
15KP36A	36	40.0	5	10	59.7	251
15KP40A	40	44.4	5	10	65.8	228
15KP43A	43	47.8	5	10	69.7	215
15KP45A	45	50.0	5	10	73.0	205
15KP48A	48	53.3	5	10	77.7	193
15KP51A	51	56.7	5	10	82.8	181
15KP54A	54	60.0	5	10	87.5	171
15KP58A	58	64.4	5	10	94.0	160
15KP60A	60	66.7	5	10	97.3	154
15KP64A	64	71.1	5	10	104.0	144
15KP70A	70	77.8	5	10	114.0	132
15KP75A	75	83.3	5	10	122.0	123
15KP78A	78	86.7	5	10	126.0	119
15KP85A	85	94.4	5	10	137.0	109
15KP90A	90	100.0	5	10	146.0	103
15KP100A	100	111.0	5	10	162.0	93
15KP110A	110	122.0	5	10	178.0	84
15KP120A	120	133.0	5	10	193.0	78
15KP130A	130	144.0	5	10	209.0	72
15KP150A	150	167.0	5	10	243.0	62
15KP160A	160	178.0	5	10	259.0	58
15KP170A	170	189.0	5	10	275.0	55
15KP180A	180	200.0	5	10	291.0	52
15KP200A	200	222.0	5	10	322.0	47
15KP220A	220	245.0	5	10	356.0	42
15KP240A	240	267.0	5	10	388.0	39
15KP260A	260	289.0	5	10	419.0	36
15KP280A	280	311.0	5	10	452.0	33

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  $\pm 10\%$ .