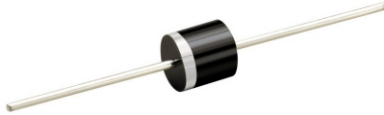


5000 Watt Peak Power Transient Voltage Suppressors

Reverse Stand-off Voltage 5.0 to 220 V

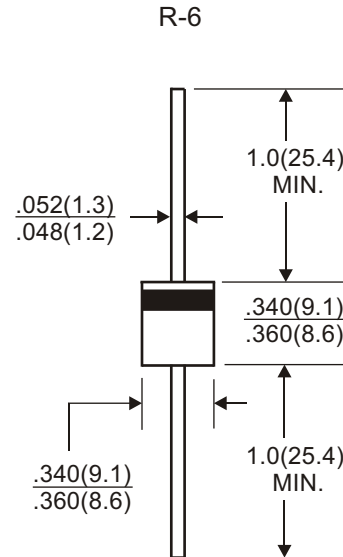


Features

- 5000 Watts peak pulse power capability on 10/1000 μ s waveform
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time: typically less than 1.0ps from 0 Volt to BV, Bidirectional less than 10 ns
- Repetition rate(duty cycle) : 0.05%
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case: Molded plastic
 Terminals: Solder plated solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes positive end (cathode) except Bipolar
 Mounting Position: Any
 Weight: 2.1grams (approx)



All dimensions inches and (millimeters)

Maximum Ratings & Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

Ratings	Symble	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μ s waveform	PPK	5000	W
Steady State Power Dissipation at TL = 75° C Lead Length .375"(9.5mm)	PD	8.0	W
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Note 1) (JEDEC Method)	IFSM	400	A
Operating and Storage Temperature Range	Tj, Ts	-55 to 175	°C

NOTE: 1. 8.3 ms single half sine-wave, or equivalent square wave, Duty cycle= 4 pulses per minutes maximum.

5KP / 5000 W Axial Lead TVS

Part Number		Reverse Stand-off Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} (V) Min.@I _T	Breakdown Voltage V _{BR} (V) Max.@I _T	Test Current I _T (mA)	Maximum Clamping Voltage @I _{PP} V _c (V)	Peak Pulse Current I _{PP} (A)	Reverse Leakage @ V _{RWM} I _R (μ A)
UNI-POLAR	BI-POLAR							
5KP5.0A	5KP5.0CA	5.0	6.40	7.00	50	9.2	544.0	5000
5KP6.0A	5KP6.0CA	6.0	6.67	7.37	50	10.3	486.0	5000
5KP6.5A	5KP6.5CA	6.5	7.22	7.98	50	11.2	447.0	2000
5KP7.0A	5KP7.0CA	7.0	7.78	8.60	50	12.0	417.0	1000
5KP7.5A	5KP7.5CA	7.5	8.33	9.21	5	12.9	388.0	250
5KP8.0A	5KP8.0CA	8.0	8.89	9.83	5	13.6	368.0	150
5KP8.5A	5KP8.5CA	8.5	9.44	10.40	5	14.4	348.0	10
5KP9.0A	5KP9.0CA	9.0	10.00	11.10	5	15.4	325.0	10
5KP10A	5KP10CA	10.0	11.10	12.30	5	17.0	295.0	10
5KP11A	5KP11CA	11.0	12.20	13.50	5	18.2	275.0	10
5KP12A	5KP12CA	12.0	13.30	14.70	5	19.9	252.0	10
5KP13A	5KP13CA	13.0	14.40	15.90	5	21.5	233.0	10
5KP14A	5KP14CA	14.0	15.60	17.20	5	23.2	216.0	10
5KP15A	5KP15CA	15.0	16.70	18.50	5	24.4	205.0	10
5KP16A	5KP16CA	16.0	17.80	19.70	5	26.0	193.0	10
5KP17A	5KP17CA	17.0	18.90	20.90	5	27.6	181.0	10
5KP18A	5KP18CA	18.0	20.00	22.10	5	29.2	172.0	10
5KP20A	5KP20CA	20.0	22.20	24.50	5	32.4	154.0	10
5KP22A	5KP22CA	22.0	24.00	26.90	5	35.5	141.0	10
5KP24A	5KP24CA	24.0	26.70	29.50	5	38.9	129.0	10
5KP26A	5KP26CA	26.0	28.90	31.90	5	42.1	119.0	10
5KP28A	5KP28CA	28.0	31.10	34.40	5	45.4	110.0	10
5KP30A	5KP30CA	30.0	33.30	36.80	5	48.4	103.0	10
5KP33A	5KP33CA	33.0	36.70	40.60	5	53.3	93.9	10
5KP36A	5KP36CA	36.0	40.00	44.20	5	58.1	86.1	10
5KP40A	5KP40CA	40.0	44.40	49.10	5	64.5	77.6	10
5KP43A	5KP43CA	43.0	47.80	52.80	5	69.4	72.1	10
5KP45A	5KP45CA	45.0	50.00	55.30	5	72.7	68.8	10
5KP48A	5KP48CA	48.0	53.30	58.90	5	77.4	64.7	10
5KP51A	5KP51CA	51.0	56.70	62.70	5	82.4	60.7	10
5KP54A	5KP54CA	54.0	60.00	66.30	5	87.1	57.5	10
5KP58A	5KP58CA	58.0	64.40	71.20	5	93.6	53.5	10
5KP60A	5KP60CA	60.0	66.70	73.70	5	96.8	51.7	10
5KP64A	5KP64CA	64.0	71.10	78.60	5	103.0	48.6	10
5KP70A	5KP70CA	70.0	77.80	86.00	5	113.0	44.3	10
5KP75A	5KP75CA	75.0	83.30	92.10	5	121.0	41.4	10
5KP78A	5KP78CA	78.0	86.70	95.80	5	126.0	39.7	10
5KP85A	5KP85CA	85.0	94.40	104.00	5	137.0	36.5	10
5KP90A	5KP90CA	90.0	100.00	111.00	5	146.0	34.3	10
5KP100A	5KP100CA	100.0	110.00	123.00	5	162.0	30.9	10
5KP110A	5KP110CA	110.0	122.00	135.00	5	177.0	28.3	10
5KP120A	5KP120CA	120.0	133.00	147.00	5	193.0	26.0	10
5KP130A	5KP130CA	130.0	144.00	159.00	5	209.0	24.0	10
5KP150A	5KP150CA	150.0	167.00	185.00	5	243.0	20.6	10

For bidirectional 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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Part Number		Reverse Stand-off Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} (V) Min.@I _T	Breakdown Voltage V _{RB} (V) Max.@I _T	Test Current I _T (mA)	Maximum Clamping Voltage @I _{PP} V _c (V)	Peak Pulse Current I _{PP} (A)	Reverse Leakage @ V _{RWM} I _R (μ A)
UNI-POLAR	BI-POLAR							
5KP160A	5KP160CA	160.0	178.00	197.00	5	259.0	19.3	10
5KP170A	5KP170CA	170.0	189.00	209.00	5	275.0	18.2	10
5KP180A	5KP180CA	180.0	200.00	221.00	5	292.0	17.6	10
5KP190A	5KP190CA	190.0	211.00	233.00	5	310.0	9.7	10
5KP200A	5KP200CA	200.0	222.00	246.00	5	329.2	9.1	10
5KP210A	5KP210CA	210.0	233.00	258.00	5	349.5	8.6	10
5KP220A	5KP220CA	220.0	244.00	270.00	5	371.1	8.1	10

For bidirectional type having V_{RWM} of 30 volts and less, the I_R limit is double.

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