



Micro Commercial Components



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

**3KP5.0(C)(A)
THRU
3KP220(C)(A)**

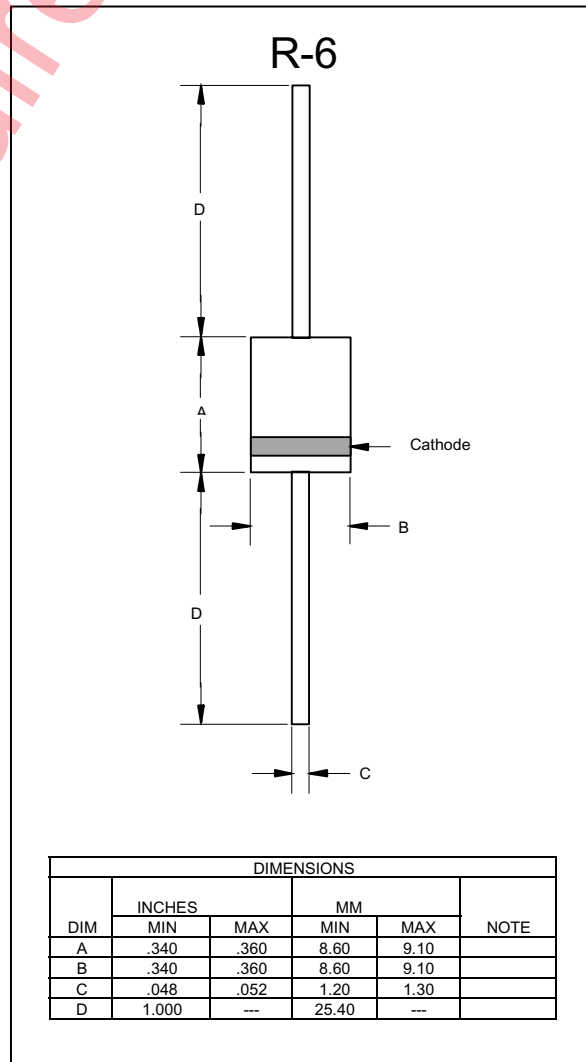
Features

- 3000 Watts Peak Power
- Low Inductance
- Unidirectional and Bidirectional unit
- Voltage Range: 5.0 to 220 Volts.
- UL Recognized File # E331408
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

**3000Watts Transient
Voltage Suppressor
5.0 to 220 Volts**

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : Cathode band(For Uni-directional) and type number
- Suffix "C" of part number denotes Bi-directional unit.
- Halogen free available upon request by adding suffix "-HF"



Electrical Characteristics @ 25°C Unless Otherwise Specified

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000us waveform (Note 2,FIG.1)	P_{PPM}	Minimum 3000	Watts
Steady State Power Dissipation at $T_L = 75^\circ C$, Lead lengths.375", (9.5mm) (Note 3)	$P_{M(AV)}$	8	Watts
Operating junction and Storage Temperature Range	P_J, T_{STG}	-55 to + 175	$^\circ C$

Notes :

- 1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.
- 2.Non-repetitive current pulse , per Fig. 3 and derated above $T_A = 25$ per Fig. 2 .
- 3.Mounted on Copper Pad area of 1.6jÅ1.6" (40jÅ40mm) per Fig. 5.

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	---	

3KP Series

3KP 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 @ $V_{RWM} I_R(\mu$ A)
UNI-POLAR	BI-POLAR							
3KP5.0A	3KP5.0CA	5.0	6.40	7.00	50	9.2	326.1	5000
3KP6.0A	3KP6.0CA	6.0	6.67	7.37	50	10.3	291.3	5000
3KP6.5A	3KP6.5CA	6.5	7.22	7.98	50	11.2	267.9	2000
3KP7.0A	3KP7.0CA	7.0	7.78	8.60	50	12.0	250.0	1000
3KP7.5A	3KP7.5CA	7.5	8.33	9.21	5	12.9	232.6	250
3KP8.0A	3KP8.0CA	8.0	8.89	9.83	5	13.6	220.6	150
3KP8.5A	3KP8.5CA	8.5	9.44	10.40	5	14.4	208.3	50
3KP9.0A	3KP9.0CA	9.0	10.00	11.10	5	15.4	194.8	20
3KP10A	3KP10CA	10.0	11.10	12.30	5	17.0	176.5	15
3KP11A	3KP11CA	11.0	12.20	13.50	5	18.2	164.8	10
3KP12A	3KP12CA	12.0	13.30	14.70	5	19.9	150.8	10
3KP13A	3KP13CA	13.0	14.40	15.90	5	21.5	139.5	10
3KP14A	3KP14CA	14.0	15.60	17.20	5	23.2	129.3	10
3KP15A	3KP15CA	15.0	16.70	18.50	5	24.4	123.0	10
3KP16A	3KP16CA	16.0	17.80	19.70	5	26.0	115.4	10
3KP17A	3KP17CA	17.0	18.90	20.90	5	27.6	108.7	10
3KP18A	3KP18CA	18.0	20.00	22.10	5	29.2	102.7	10
3KP20A	3KP20CA	20.0	22.20	24.50	5	32.4	92.6	10
3KP22A	3KP22CA	22.0	24.40	26.90	5	35.5	84.5	10
3KP24A	3KP24CA	24.0	26.70	29.50	5	38.9	77.1	10
3KP26A	3KP26CA	26.0	28.90	31.90	5	42.1	71.3	10
3KP28A	3KP28CA	28.0	31.10	34.40	5	45.4	66.1	10
3KP30A	3KP30CA	30.0	33.30	36.80	5	48.4	62.0	10
3KP33A	3KP33CA	33.0	36.70	40.60	5	53.3	56.3	10
3KP36A	3KP36CA	36.0	40.00	44.20	5	58.1	51.6	10
3KP40A	3KP40CA	40.0	44.40	49.10	5	64.5	46.5	10
3KP43A	3KP43CA	43.0	47.80	52.80	5	69.4	43.2	10
3KP45A	3KP45CA	45.0	50.00	55.30	5	72.7	41.3	10
3KP48A	3KP48CA	48.0	53.30	58.90	5	77.4	38.8	10
3KP51A	3KP51CA	51.0	56.70	62.70	5	82.4	36.4	10
3KP54A	3KP54CA	54.0	60.00	66.30	5	87.1	34.4	10
3KP58A	3KP58CA	58.0	64.40	71.20	5	93.6	32.1	10
3KP60A	3KP60CA	60.0	66.70	73.70	5	96.8	31.0	10
3KP64A	3KP64CA	64.0	71.10	78.60	5	103.0	29.1	10
3KP70A	3KP70CA	70.0	77.80	86.00	5	113.0	26.5	10
3KP75A	3KP75CA	75.0	83.30	92.10	5	121.0	24.8	10
3KP78A	3KP78CA	78.0	86.70	95.80	5	126.0	23.8	10
3KP85A	3KP85CA	85.0	94.40	104.00	5	137.0	21.9	10
3KP90A	3KP90CA	90.0	100.00	111.00	5	146.0	20.5	10
3KP100A	3KP100CA	100.0	111.00	123.00	5	162.0	18.5	10
3KP110A	3KP110CA	110.0	122.00	135.00	5	177.0	16.9	10
3KP120A	3KP120CA	120.0	133.00	147.00	5	193.0	15.5	10
3KP130A	3KP130CA	130.0	144.00	159.00	5	209.0	14.4	10
3KP150A	3KP150CA	150.0	167.00	185.00	5	243.0	12.3	10
3KP160A	3KP160CA	160.0	178.00	197.00	5	259.0	11.6	10
3KP170A	3KP170CA	170.0	189.00	209.00	5	275.0	10.9	10
3KP180A	3KP180CA	180.0	200.00	221.00	5	289.0	10.4	10
3KP190A	3KP190CA	190.0	211.00	233.00	5	310.0	9.7	10
3KP200A	3KP200CA	200.0	222.00	246.00	5	329.2	9.1	10
3KP210A	3KP210CA	210.0	233.00	258.00	5	349.5	8.6	10
3KP220A	3KP220CA	220.0	244.00	270.00	5	371.1	8.1	10

For bidirectional type having V_{rwm} of 10 volts and less, the I_R limit is double.
 For parts without A, the V_{BR} is $\pm 10\%$

3KP Series

RATINGS AND CHARACTERISTIC CURVES (TA=25°C unless otherwise noted)



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Fig. 1 - Peak Pulse Power Rating Curve

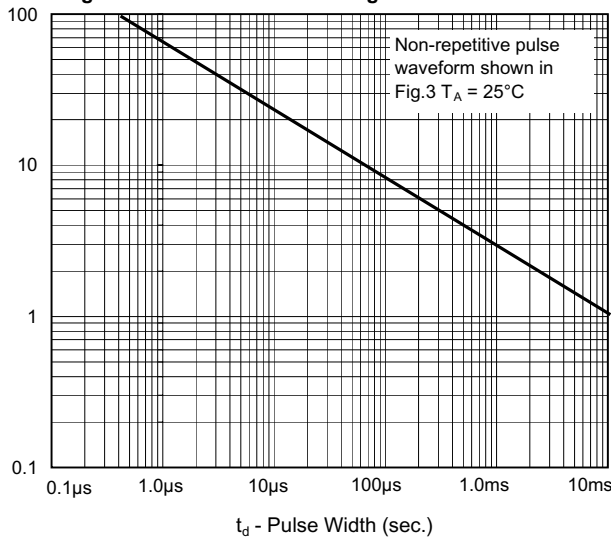


Fig.2 - Pulse Derating Curve

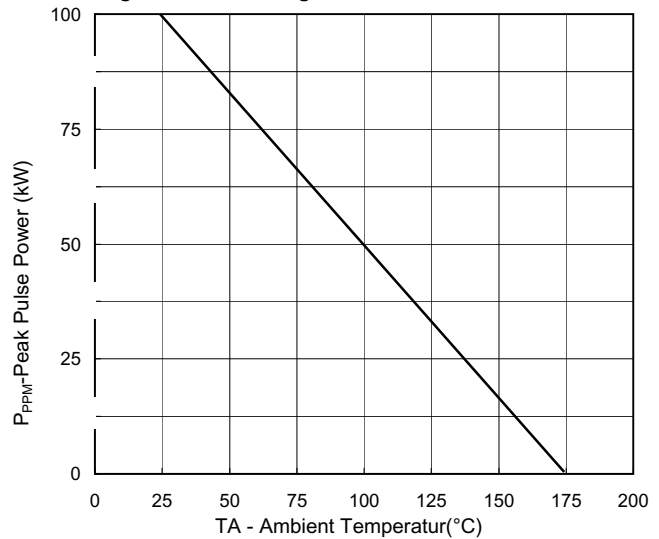


Fig.3 - Pulse Waveform

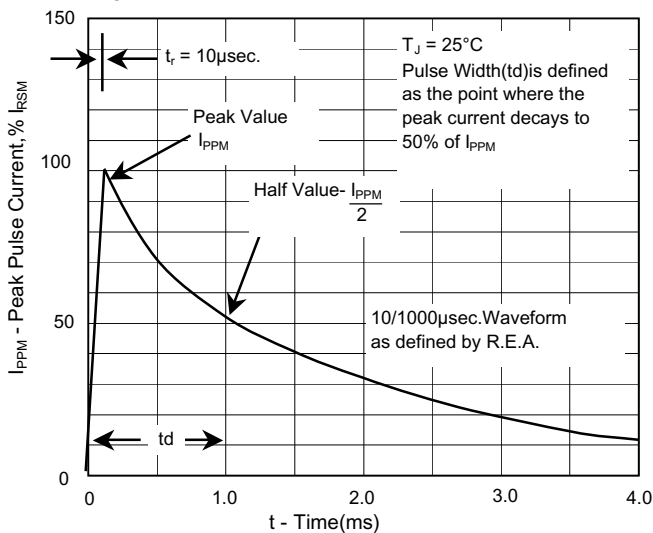


Fig. 4 - Typical Junction Capacitance

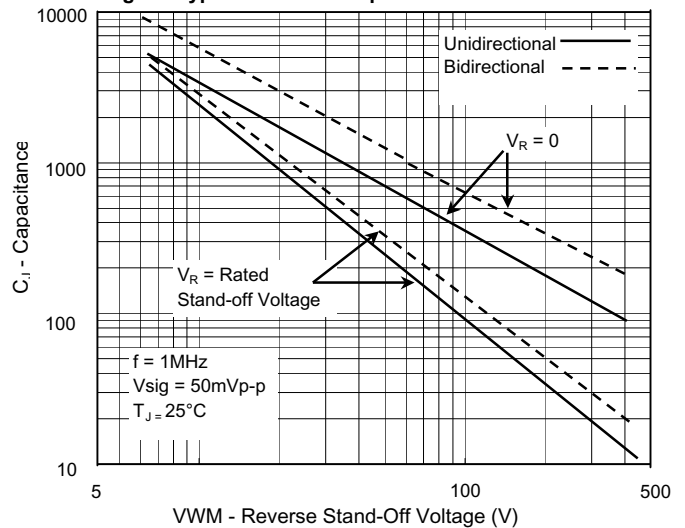


Fig. 5 - Steady State Power Derating Curve

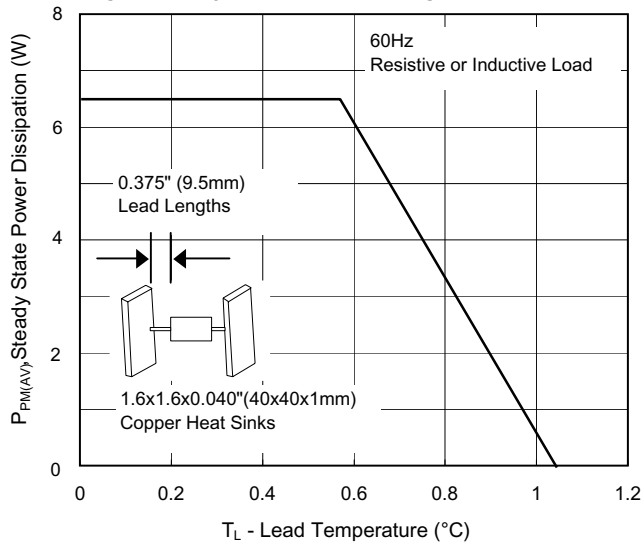
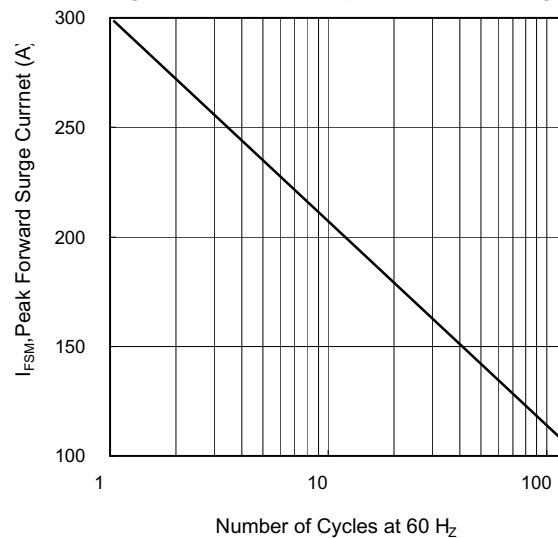


Fig.6 - Maximum Non-repetitive Forward Surge current





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 500pcs/Reel
Part Number-AP	Ammo Packing: 450pcs/Ammo Box
Part Number-BP	Bulk: 4.8Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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