

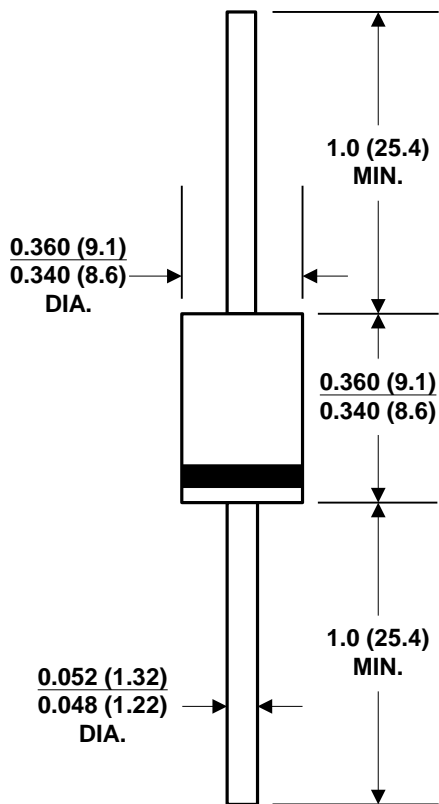
5KP Series Axial Lead

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR STAND-OFF VOLTAGE - 5.0 TO 220 Volts

■ 5000 Watt Peak Pulse Power

■ Dimensions

Case Style P600



Dimensions in inches and (millimeters)

■ Features

- ⊙ Plastic package
- ⊙ Glass passivated chip junction
- ⊙ 5000W Peak Pulse Power capability on 10/1000µs waveform
- ⊙ Excellent clamping capability
- ⊙ Repetition rate (duty cycle): 0.05%
- ⊙ Low incremental surge resistance
- ⊙ Fast response time: typically less than 1.0ps from 0 Volts to BV
- ⊙ Typical IR less than 1µA for $V_{br} \geq 10V$
- ⊙ High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension
- ⊙ Pb-free plated

■ Mechanical Data

Case: Molded plastic over glass passivated junction

Terminal: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes positive end (cathode) except Bipolar

Mounting Position: Any

Weight: 0.07ounce, 2.1gram

■ Specification

5KP PART NUMBER		REVERSE STAND-OFF VOLTAGE	BREAKDOWN VOLTAGE MIN. @ I _T	BREAKDOWN VOLTAGE MAX. @ I _T	TEST CURRENT	PEAK PULSE CURRENT	MAXIMUM CLAMPING VOLTAGE @ I _{PP}	REVERSE LEAKAGE @ V _{RWM}
UNI-POLAR	BI-POLAR	VRWM(V)	VBR min(V)	VBR max(V)	IT (mA)	Ipp (A)	VC (V)	IR(µA)
5KP5.0	5KP5.0C	5.0	6.40	7.30	50	531.3	9.6	5000
5KP5.0A	5KP5.0CA	5.0	6.40	7.00	50	554.3	9.2	5000
5KP6.0	5KP6.0C	6.0	6.67	8.15	50	447.4	11.4	5000
5KP6.0A	5KP6.0CA	6.0	6.67	7.37	50	495.1	10.3	5000
5KP6.5	5KP6.5C	6.5	7.22	8.82	50	414.6	12.3	2000
5KP6.5A	5KP6.5CA	6.5	7.22	7.98	50	455.4	11.2	2000
5KP7.0	5KP7.0C	7.0	7.78	9.51	50	383.5	13.3	1000
5KP7.0A	5KP7.0CA	7.0	7.78	8.60	50	425.0	12.0	1000
5KP7.5	5KP7.5C	7.5	8.33	10.20	5	356.6	14.3	250
5KP7.5A	5KP7.5CA	7.5	8.33	9.21	5	395.3	12.9	250
5KP8.0	5KP8.0C	8.0	8.89	10.90	5	340.0	15.0	150
5KP8.0A	5KP8.0CA	8.0	8.89	9.83	5	375.0	13.6	150
5KP8.5	5KP8.5C	8.5	9.44	11.50	5	320.8	15.9	50
5KP8.5A	5KP8.5CA	8.5	9.44	10.40	5	354.2	14.4	50
5KP9.0	5KP9.0C	9.0	10.00	12.20	5	301.8	16.9	20
5KP9.0A	5KP9.0CA	9.0	10.00	11.10	5	331.2	15.4	20

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UNI-POLAR	BI-POLAR	VRWM(V)	VBR min(V)	VBR max(V)	IT (mA)	Ipp (A)	VC (V)	IR(μA)
5KP10	5KP10C	10.0	11.10	13.60	5	271.3	18.8	15
5KP10A	5KP10CA	10.0	11.10	12.30	5	300.0	17.0	15
5KP11	5KP11C	11.0	12.20	14.90	5	253.7	20.1	10
5KP11A	5KP11CA	11.0	12.20	13.50	5	280.2	18.2	10
5KP12	5KP12C	12.0	13.30	16.30	5	231.8	22.0	10
5KP12A	5KP12CA	12.0	13.30	14.70	5	256.3	19.9	10
5KP13	5KP13C	13.0	14.40	17.60	5	214.3	23.8	10
5KP13A	5KP13CA	13.0	14.40	15.90	5	237.2	21.5	10
5KP14	5KP14C	14.0	15.60	19.10	5	197.7	25.8	10
5KP14A	5KP14CA	14.0	15.60	17.20	5	219.8	23.2	10
5KP15	5KP15C	15.0	16.70	20.40	5	189.6	26.9	10
5KP15A	5KP15CA	15.0	16.70	18.50	5	209.0	24.4	10
5KP16	5KP16C	16.0	17.80	21.80	5	177.1	28.8	10
5KP16A	5KP16CA	16.0	17.80	19.70	5	196.2	26.0	10
5KP17	5KP17C	17.0	18.90	23.10	5	167.2	30.5	10
5KP17A	5KP17CA	17.0	18.90	20.90	5	184.8	27.6	10
5KP18	5KP18C	18.0	20.00	24.40	5	158.4	32.2	10
5KP18A	5KP18CA	18.0	20.00	22.10	5	174.7	29.2	10
5KP20	5KP20C	20.0	22.20	27.10	5	142.5	35.8	10
5KP20A	5KP20CA	20.0	22.20	24.50	5	157.4	32.4	10
5KP22	5KP22C	22.0	24.40	29.80	5	129.4	39.4	10
5KP22A	5KP22CA	22.0	24.40	26.90	5	143.7	35.5	10
5KP24	5KP24C	24.0	26.70	32.60	5	118.6	43.0	10
5KP24A	5KP24CA	24.0	26.70	29.50	5	131.1	38.9	10
5KP26	5KP26C	26.0	28.90	35.30	5	109.4	46.6	10
5KP26A	5KP26CA	26.0	28.90	31.90	5	121.1	42.1	10
5KP28	5KP28C	28.0	31.10	38.00	5	101.8	50.1	10
5KP28A	5KP28CA	28.0	31.10	34.40	5	112.3	45.4	10
5KP30	5KP30C	30.0	33.3	40.7	5	95.3	53.5	10
5KP30A	5KP30CA	30.0	33.30	36.80	5	105.4	48.4	10
5KP33	5KP33C	33.0	36.7	44.9	5	86.4	59.0	10
5KP33A	5KP33CA	33.0	36.7	40.6	5	95.7	53.3	10
5KP36	5KP36C	36.0	40.0	48.9	5	79.3	64.3	10
5KP36A	5KP36CA	36.0	40.0	44.2	5	87.8	58.1	10
5KP40	5KP40C	40.0	44.4	54.3	5	71.4	71.4	10
5KP40A	5KP40CA	40.0	44.4	49.1	5	79.1	64.5	10
5KP43	5KP43C	43.0	47.8	58.4	5	66.5	76.7	10
5KP43A	5KP43CA	43.0	47.8	52.8	5	73.5	69.4	10
5KP45	5KP45C	45.0	50.0	61.1	5	63.5	80.3	10
5KP45A	5KP45CA	45.0	50.0	55.3	5	70.2	72.7	10
5KP48	5KP48C	48.0	53.3	65.2	5	59.6	85.5	10
5KP48A	5KP48CA	48.0	53.3	58.9	5	65.9	77.4	10
5KP51	5KP51C	51.0	56.7	69.3	5	56.0	91.1	10
5KP51A	5KP51CA	51.0	56.7	62.7	5	61.9	82.4	10

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UNI-POLAR	BI-POLAR	VRWM(V)	VBR min(V)	VBR max(V)	IT (mA)	Ipp (A)	VC (V)	IR(μA)
5KP54	5KP54C	54.0	60.0	73.3	5	53.0	96.3	10
5KP54A	5KP54CA	54.0	60.0	66.3	5	58.6	87.1	10
5KP58	5KP58C	58.0	64.4	78.7	5	49.5	103.0	10
5KP58A	5KP58CA	58.0	64.4	71.2	5	54.5	93.6	10
5KP60	5KP60C	60.0	66.7	81.5	5	47.0	107.0	10
5KP60A	5KP60CA	60.0	66.7	73.7	5	52.7	96.8	10
5KP64	5KP64C	64.0	71.1	86.9	5	44.7	114.0	10
5KP64A	5KP64CA	64.0	71.1	78.6	5	49.5	103.0	10
5KP70	5KP70C	70.0	77.8	95.1	5	40.8	125.0	10
5KP70A	5KP70CA	70.0	77.8	86.0	5	45.1	113.0	10
5KP75	5KP75C	75.0	83.3	102.0	5	38.1	134.0	10
5KP75A	5KP75CA	75.0	83.3	92.1	5	42.1	121.0	10
5KP78	5KP78C	78.0	86.7	106.0	5	36.7	139.0	10
5KP78A	5KP78CA	78.0	86.7	95.8	5	40.5	126.0	10
5KP85	5KP85C	85.0	94.4	115.0	5	33.8	151.0	10
5KP85A	5KP85CA	85.0	94.4	104.0	5	37.2	137.0	10
5KP90	5KP90C	90.0	100.0	122.0	5	31.9	160.0	10
5KP90A	5KP90CA	90.0	100.0	111.0	5	34.9	146.0	10
5KP100	5KP100C	100.0	110.0	136.0	5	28.5	179.0	10
5KP100A	5KP100CA	100.0	110.0	123.0	5	31.5	162.0	10
5KP110	5KP110C	110.0	122.0	149.0	5	26.0	196.0	10
5KP110A	5KP110CA	110.0	122.0	135.0	5	28.8	177.0	10
5KP120	5KP120C	120.0	133.0	163.0	5	23.8	214.0	10
5KP120A	5KP120CA	120.0	133.0	147.0	5	26.4	193.0	10
5KP130	5KP130C	130.0	144.0	176.0	5	22.2	230.0	10
5KP130A	5KP130CA	130.0	144.0	159.0	5	24.4	209.0	10
5KP150	5KP150C	150.0	167.0	204.0	5	19.0	268.0	10
5KP150A	5KP150CA	150.0	167.0	185.0	5	21.0	243.0	10
5KP160	5KP160C	160.0	178.0	218.0	5	17.9	284.6	10
5KP160A	5KP160CA	160.0	178.0	197.0	5	19.7	259.0	10
5KP170	5KP170C	170.0	189.0	231.0	5	16.8	304.0	10
5KP170A	5KP170CA	170.0	189.0	209.0	5	18.5	275.0	10
5KP180	5KP180C	180.0	200.0	244.0	5	15.8	322.8	10
5KP180A	5KP180CA	180.0	200.0	221.0	5	17.5	292.0	10
5KP190	5KP190C	190.0	211.0	258.0	5	14.9	342.7	10
5KP190A	5KP190CA	190.0	211.0	233.0	5	16.5	310.0	10
5KP200	5KP200C	200.0	222.0	272.0	5	14.0	363.9	10
5KP200A	5KP200CA	200.0	222.0	246.0	5	15.5	329.2	10
5KP210	5KP210C	210.0	233.0	285.0	5	13.2	386.4	10
5KP210A	5KP210CA	210.0	233.0	258.0	5	14.6	349.5	10
5KP220	5KP220C	220.0	244.0	299.0	5	12.4	410.2	10
5KP220A	5KP220CA	220.0	244.0	270.0	5	13.7	371.1	10
5KP250	5KP250C	250.0	277.0	340.0	5	10.9	469.8	10
5KP250A	5KP250CA	250.0	277.0	306.0	5	12.0	425.0	10

For bidirectional type having Vrwm of 10 volts and less, the IR limit is double.

For parts without A , the V_{BR} is ± 10%