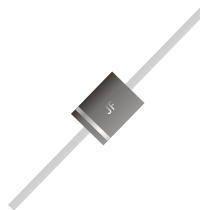
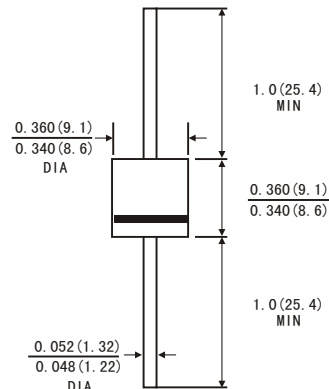


FEATURES

- 5000 Watts Pulse capability on 10/1000 μ s wave form
- Excellent clamping capability
- Low zener impedance
- Fast response time
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component inaccordance to RoHS 2002/95/EC and WEEE 2002/96/EC



R-6



MECHANICAL DATA

- *Case:* R-6 molded plastic body
- *Terminals:* Plated axial lead, solderable per MIL-STD-750,method 2026
- *Polarity:* Color band denotes cathode end
- *Mounting Position:* Any
- *Weight:* 0.07ounce, 2.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

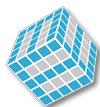
(Rating at 25 °C ambient temperature unless otherwise specified)

	Symbols	Valuse	Units
Peak power dissipation at TA=25 °C, TP=1ms (Note 1.)	PPPM	Min. 5000	Watts
Steady state power dissipation at TJ=75 C°lead length 0.375" (9.5mm)(Note 2.)	PD	8. 0	Watts
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method) (Note 3.)	IFSM	400	Amps
Maximum instantaneous forward voltage at 100A for unidirectional only	VF	3. 5	Volts
Operating junction and storage temperature range	TJ, TSTG	-55 to +175	°C

Note: 1.Non repetitive current pulse and derated above TA=25°C

2.Mounted on copper pads area of 0. 8X0. 8"(20X20mm)

3.Measured on 8.3ms single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum



赫品电子

ECUBE-TECHNOLOGY

TVS (Transient Voltage Suppressor) Specification

Axial Lead 5KP Series

Version No.:ADB2-TVS-5KP-AS

TYPE	Breakdown Voltage V _(BR) (Volts)		Test Current I _T (mA)	Reverse Stand off Voltage V _{WM} (Volts)	Maximum Reverse Leakage At V _{WM} I _D (uA)	Maximum Peak Pulse Current I _{ppm} (Amps)	Maximum Clamping Voltage At I _{ppm} V _C (Volts)	Maximum Temperature Coefficient of V _(BR) % / °C
	MIN	MAX						
5KP5.0	6.40	7.30	50	5.0	5,000.0	520	9.6	0.057
5KP5.0A	6.40	7.00	50	5.0	5,000.0	543	9.2	0.057
5KP6.0	6.67	8.15	50	6.0	5,000.0	439	11.4	0.061
5KP6.0A	6.67	7.37	50	6.0	5,000.0	485	10.3	0.061
5KP6.5	7.22	8.82	50	6.5	2,000.0	407	12.3	0.065
5KP6.5A	7.22	7.98	50	6.5	2,000.0	447	11.2	0.065
5KP7.0	7.78	9.51	50	7.0	1,000.0	378	13.3	0.068
5KP7.0A	7.78	8.60	50	7.0	1,000.0	417	12.0	0.068
5KP7.5	8.33	10.2	5.0	7.5	250.0	350	14.3	0.073
5KP7.5A	8.33	9.21	5.0	7.5	250.0	388	12.9	0.073
5KP8.0	8.89	10.9	5.0	8.0	150.0	333	15.0	0.075
5KP8.0A	8.89	9.83	5.0	8.0	150.0	367	13.6	0.075
5KP8.5	9.44	11.5	5.0	8.5	50.0	314	15.9	0.078
5KP8.5A	9.44	10.4	5.0	8.5	50.0	347	14.4	0.078
5KP9.0	10.0	12.2	5.0	9.0	20.0	295	16.9	0.081
5KP9.0A	10.0	11.1	5.0	9.0	20.0	325	15.4	0.081
5KP10	11.1	13.6	5.0	10.0	15.0	266	18.8	0.084
5KP10A	11.1	12.3	5.0	10.0	15.0	294	17.0	0.084
5KP11	12.2	14.9	5.0	11.0	10.0	249	20.1	0.086
5KP11A	12.2	13.5	5.0	11.0	10.0	274	18.2	0.086
5KP12	13.3	16.3	5.0	12.0	10.0	227	22.0	0.088
5KP12A	13.3	14.7	5.0	12.0	10.0	251	19.9	0.088
5KP13	14.4	17.6	5.0	13.0	10.0	210	23.8	0.090
5KP13A	14.4	15.9	5.0	13.0	10.0	232	21.5	0.090
5KP14	15.6	19.1	5.0	14.0	10.0	194	25.8	0.092
5KP14A	15.6	17.2	5.0	14.0	10.0	215	23.2	0.092
5KP15	16.7	20.4	5.0	15.0	10.0	188	26.9	0.094
5KP15A	16.7	18.5	5.0	15.0	10.0	206	24.4	0.094
5KP16	17.8	21.8	5.0	16.0	10.0	176	28.8	0.096
5KP16A	17.8	19.7	5.0	16.0	10.0	192	26.0	0.096
5KP17	18.9	23.1	5.0	17.0	10.0	164	30.5	0.097
5KP17A	18.9	20.9	5.0	17.0	10.0	181	27.6	0.097
5KP18	20.0	24.4	5.0	18.0	10.0	155	32.2	0.098
5KP18A	20.0	22.1	5.0	18.0	10.0	172	29.2	0.098
5KP20	22.2	27.1	5.0	20.0	10.0	139	35.8	0.099
5KP20A	22.2	24.5	5.0	20.0	10.0	154	32.4	0.099
5KP22	24.4	29.8	5.0	22.0	10.0	127	39.4	0.100
5KP22A	24.4	26.9	5.0	22.0	10.0	141	35.5	0.100
5KP24	26.7	32.6	5.0	24.0	10.0	116	43.0	0.101
5KP24A	26.7	29.5	5.0	24.0	10.0	128	38.9	0.101
5KP26	28.9	35.3	5.0	26.0	10.0	107	46.6	0.101
5KP26A	28.9	31.9	5.0	26.0	10.0	119	42.1	0.101
5KP28	31.1	38.0	5.0	28.0	10.0	99	50.1	0.102
5KP28A	31.1	34.4	5.0	28.0	10.0	110	45.4	0.102
5KP30	33.3	40.7	5.0	30.0	10.0	93	53.5	0.103
5KP30A	33.3	36.8	5.0	30.0	10.0	103	48.4	0.103

TYPE	Breakdown Voltage V _(BR) (Volts)		Test Current I _T (mA)	Reverse Stand off Voltage V _{WM} (Volts)	Maximum Reverse Leakage At V _{WM} I _D (uA)	Maximum Peak Pulse Current I _{ppm} (Amps)	Maximum Clamping Voltage At I _{ppm} V _C (Volts)	Maximum Temperature Coefficient of V _(BR) % / °C
	MIN	MAX						
5KP33	36.7	44.9	5.0	33.0	10.0	86.0	59.0	0.104
5KP33A	36.7	40.6	5.0	33.0	10.0	94.0	53.3	0.104
5KP36	40.0	48.9	5.0	36.0	10.0	78.0	64.3	0.104
5KP36A	40.0	44.2	5.0	36.0	10.0	86.0	58.1	0.104
5KP40	44.4	54.3	5.0	40.0	10.0	70.0	71.4	0.105
5KP40A	44.4	49.1	5.0	40.0	10.0	78.0	64.5	0.105
5KP43	47.8	58.4	5.0	43.0	10.0	65.0	76.7	0.105
5KP43A	47.8	52.8	5.0	43.0	10.0	72.0	69.4	0.105
5KP45	50.0	61.1	5.0	45.0	10.0	62.0	80.3	0.106
5KP45A	50.0	55.3	5.0	45.0	10.0	69.0	72.7	0.106
5KP48	53.3	65.2	5.0	48.0	10.0	58.0	85.5	0.106
5KP48A	53.3	58.9	5.0	48.0	10.0	65.0	77.4	0.106
5KP51	56.7	69.3	5.0	51.0	10.0	55.0	91.1	0.107
5KP51A	56.7	62.7	5.0	51.0	10.0	61.0	82.4	0.107
5KP54	60.0	73.3	5.0	54.0	10.0	52.0	96.3	0.107
5KP54A	60.0	66.3	5.0	54.0	10.0	57.0	87.1	0.107
5KP58	64.4	78.7	5.0	58.0	10.0	49.0	103	0.107
5KP58A	64.4	71.2	5.0	58.0	10.0	53.0	93.6	0.107
5KP60	66.7	81.5	5.0	60.0	10.0	47.0	107	0.108
5KP60A	66.7	73.7	5.0	60.0	10.0	52.0	96.8	0.108
5KP64	71.1	86.9	5.0	64.0	10.0	44.0	114	0.108
5KP64A	71.1	78.6	5.0	64.0	10.0	49.0	103	0.108
5KP70	77.8	95.1	5.0	70.0	10.0	40.0	125	0.108
5KP70A	77.8	86.0	5.0	70.0	10.0	44.0	113	0.108
5KP75	83.3	102	5.0	75.0	10.0	37.0	134	0.108
5KP75A	83.3	92.1	5.0	75.0	10.0	41.0	121	0.108
5KP78	86.7	106.0	5.0	78.0	10.0	36.0	139	0.108
5KP78A	86.7	95.8	5.0	78.0	10.0	40.0	126	0.108
5KP85	94.4	115	5.0	85.0	10.0	33.0	151	0.108
5KP85A	94.4	104	5.0	85.0	10.0	36.0	137	0.110
5KP90	100	122	5.0	90.0	10.0	31.0	160	0.110
5KP90A	100	111	5.0	90.0	10.0	34.0	146	0.110
5KP100	111	136	5.0	100	10.0	28.0	179	0.110
5KP100A	111	123	5.0	100	10.0	31.0	162	0.110
5KP110	122	149	5.0	110	10.0	26.0	196	0.112
5KP110A	122	135	5.0	110	10.0	28.0	177	0.112

Notes: 1.V_(BR) measured after I_T applied for 300μS, I_T=square wave pulse or equivalent.

FIG. 1-PEAK PULSE POWER CURVE

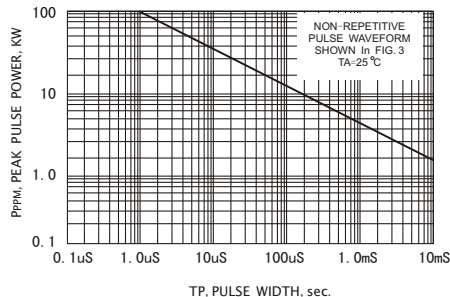


FIG. 2-PULSE DERATING CURVE

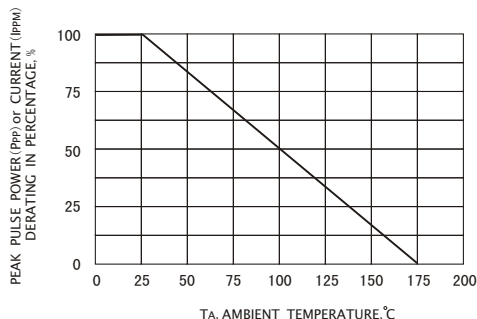


FIG. 3-PULSE WAVEFORM

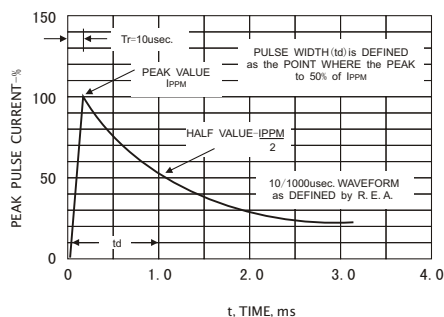


FIG. 4-STEADY STATE POWER DERATING CURVE

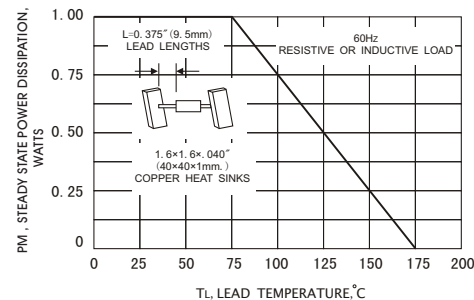


FIG. 5-TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL

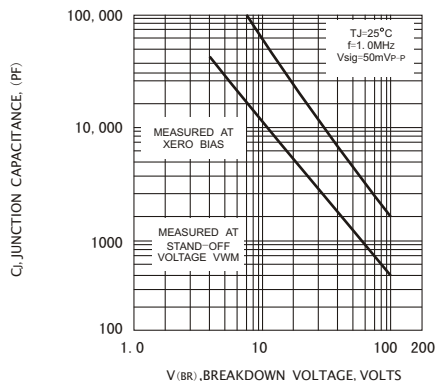
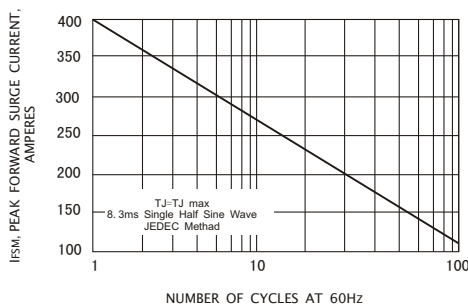


FIG. 6-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT UNIDIRECTIONAL



CONTACT INFORMATION

Shanghai Ecube-Tech Electronics Technology Co., Ltd.

Email: Marketing@ecube-tech.com

Tel: +86 21 50723288

Address: No.245, Jinan Road, Huangpu Area, Shanghai, 200021, China

Website: www.ecube-tech.com