MDE Semiconductor, Inc.

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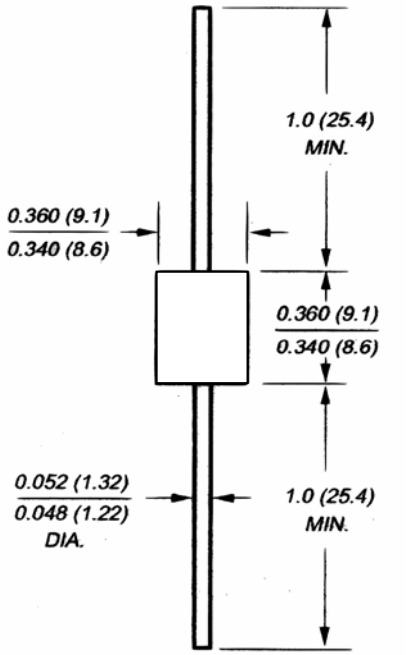
LC 3KP Series

LOW CAPACITANCE BI DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR
STAND-OFF VOLTAGE- 6.5 - 28 Volts
3000 Watt Peak Pulse Power

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-O
- Glass passivated junction
- 3000W Peak Pulse Power capability on 10/1000 µs waveform, repetition rate (duty cycle): 0.05%
- Glass passivated junction
- Low incremental surge resistance
- Excellent clamping capability
- Fast response time: typically less than 5.0 ns from 0 volts to V(BR)
- Ideal for data line applications
- High temperature soldering guaranteed: 265°C/10 seconds/ .375", (9.5mm) lead length, 5lbs., (2.3kg) tension

Case Style P600



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic over glass passivated junction
Terminals: Plated Axial leads, solderable per MIL-STD-750, Method 2026
Mounting Position: Any
Weight: 0.07 ounces, 2.1 gram

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000 µs waveform (NOTE 1, Fig.1)	P_{PPM}	Minimum 3000	Watts
Peak Pulse Current of on 10/1000 µs waveform (Note 1,Fig 3)	I_{PPM}	SEE TABLE 1	Amps
Steady State Power Dissipation at T_L = 75°C Lead lengths .375", 9.5mm	$P_{M(AV)}$	5.0	Watts
Operatings and Storage Temperature Range	T_J, T_{STG}	-55 +175	°C

NOTES:
1. Non-repetitive current pulse, per Fig.3 and derated above Ta=25 °C per Fig.2.

Certified RoHS Compliant
UL File # E223026

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3000 Watt Low Capacitance Bi Directional TVS

PART NUMBER	STANDOFF VOLTAGE VWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN./MAX. @ IT	MAXIMUM REVERSE LEAKAGE @ VWM ID(µA)	TEST CURRENT (It) mA	MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V)	PEAK PULSE CURRENT IppM (A)	MAXIMUM JUNCTION CAPACITANCE @ 0 VOLTS (pF)	WORKING INVERSE BLOCKING VOLTAGE VWIB VOLTS	MAXIMUM INVERSE BLOCKING LEAKAGE CURRENT @ VWIB ID(mA)	MINIMUM PEAK INVERSE BLOCKING VOLTAGE VPIB VOLTS
LC 3KP6.5CA	6.50	7.22/7.98	1000	10	11.2	200	200	75	1	100
LC 3KP7.0CA	7.00	7.78/8.6	500	10	12.0	200	200	75	1	100
LC 3KP7.5CA	7.50	8.33/9.21	250	10	12.9	200	200	75	1	100
LC 3KP8.0CA	8.00	8.89/9.83	100	1	13.6	200	200	75	1	100
LC 3KP8.5CA	8.50	9.44/10.4	50	1	14.4	200	200	75	1	100
LC 3KP9.0CA	9.00	10/11.1	10	1	15.4	194.0	200	75	1	100
LC 3KP10CA	10.00	11.1/12.3	5	1	17.0	176.0	200	75	1	100
LC 3KP11CA	11.00	12.2/13.5	5	1	18.2	164.0	200	75	1	100
LC 3KP12CA	12.00	13.3/14.7	5	1	19.9	150.0	200	75	1	100
LC 3KP13CA	13.00	14.4/15.9	5	1	21.5	140.0	200	75	1	100
LC 3KP14CA	14.00	15.6/17.2	5	1	23.2	130.0	200	75	1	100
LC 3KP15CA	15.00	16.7/18.5	5	1	24.4	122.0	200	75	1	100
LC 3KP16CA	16.00	17.8/19.7	5	1	26.0	114.0	200	75	1	100
LC 3KP17CA	17.00	18.9/20.9	5	1	27.6	108.0	200	75	1	100
LC 3KP18CA	18.00	20/22.1	5	1	29.2	102.0	200	75	1	100
LC 3KP20CA	20.00	22.2/24.5	5	1	32.4	92.0	200	75	1	100
LC 3KP22CA	22.00	24.4/26.9	5	1	35.5	84.0	200	75	1	100
LC 3KP24CA	24.00	26.7/29.5	5	1	38.9	79.0	200	75	1	100
LC 3KP26CA	26.00	28.9/31.9	5	1	42.1	72.0	200	75	1	100
LC 3KP28CA	28.00	31.1/34.4	5	1	45.5	66.0	200	75	1	100

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