

1500W Low Capacitance Transient Voltage Suppressor

Features

- Stand-off voltage from 6.5 to 90 volts
- Low Capacitance
- 1500W Peak Pulse Power capability on 10/1000 μ s waveform repetition rate(duty cycle): 0.05%
- Fast response time: typically less than 1.0ps from 0v to VBR
- High temperature soldering guaranteed 265°C/10 seconds
/.037" (9.5mm) lead length, 5lbs (2.3kg),tension
- This series is UL recognized under component index. File number E315008
- RoHS Compliant



Mechanical Data

Case:	1.5KE, Molded plastic
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Cathode indicated by color band
Weight:	1.5 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit
V_{WM}	Stand-Off Voltage	6.5 to 90	V
PPPM	Peak Pulse Power Dissipation on 10/1000 μ s waveform(Note 1)	Minimum 1500	W
IPPM	Peak Pulse current on 10/1000 μ s waveform(Note 1)	See Table	A
C_J	Max. Junction Capacitance at 0V	100	pf
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to 175	°C

Notes: (1) Non-repetitive current pulse, per Fig.3 and derated above $T_A = 25^{\circ}C$ per Fig. 2

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LCE6.5A - LCE90A

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

P/N	Stand-Off Voltage	Breakdown Voltage @ I _T			Max. Clamping Voltage. @ I _{PPM}	Max. Peak Pulse Current	Max. Reverse Leakage Current @ V _{WM}
		V _{BR}		I _T (mA)			
Uni-Polar	V _{WM} (V)	Min.	Max.		V _C (V)	I _{PPM} (A) (Note1)	I _D (μA) (Note1)
LCE6.5A	6.5	7.22	7.98	10	11.2	100	1000
LCE7.0A	7.0	7.78	8.60	10	12.0	100	500
LCE7.5A	7.5	8.33	9.21	10	12.9	100	100
LCE8.0A	8.0	8.89	9.83	1	13.6	100	100
LCE8.5A	8.5	9.44	10.4		14.4	100	50
LCE9.0A	9.0	10.0	11.1		15.4	97.0	10
LCE10A	10.0	11.1	12.3		17.0	88.0	5.0
LCE11A	11.0	12.2	13.5		18.2	82.0	5.0
LCE12A	12.0	13.3	14.7		19.9	75.0	5.0
LCE13A	13.0	14.4	15.9		21.5	70.0	5.0
LCE14A	14.0	15.6	17.2		23.2	65.0	5.0
LCE15A	15.0	16.7	18.5		24.4	61.0	5.0
LCE16A	16.0	17.8	19.7		26.0	57.0	5.0
LCE17A	17.0	18.9	20.9		27.6	54.0	5.0
LCE18A	18.0	20.0	22.1		29.2	51.0	5.0
LCE20A	20.0	22.2	24.5		32.4	46.0	5.0
LCE22A	22.0	24.4	26.9		35.5	42.0	5.0
LCE24A	24.0	26.7	29.5		38.9	39.0	5.0
LCE26A	26.0	28.9	31.9		42.1	36.0	5.0
LCE28A	28.0	31.1	34.4		45.5	33.0	5.0
LCE30A	30.0	33.3	36.8		48.4	31.0	5.0
LCE33A	33.0	36.7	40.6		53.3	28.1	5.0
LCE36A	36.0	40.0	44.2		58.1	25.8	5.0
LCE40A	40.0	44.4	49.1		64.5	23.3	5.0
LCE43A	43.0	47.8	52.8		69.4	21.6	5.0
LCE45A	45.0	50.0	55.3		72.7	20.6	5.0

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LCE6.5A - LCE90A

P/N	Stand-Off Voltage	Breakdown Voltage @ I _T			Max. Clamping Voltage. @ I _{PPM}	Max. Peak Pulse Current	Max. Reverse Leakage Current @ V _{WM}
		V _{BR}		I _T (mA)			
Uni-Polar	V _{WM} (V)	Min.	Max.		1	V _C (V)	I _{PPM} (A) (Note1)
LCE48A	48.0	53.3	58.9	77.4		19.4	5.0
LCE51A	51.0	56.7	62.7	82.4		18.2	5.0
LCE54A	54.0	60.0	66.3	87.1		17.2	5.0
LCE58A	58.0	64.4	71.2	93.6		16.0	5.0
LCE60A	60.0	66.7	73.7	96.8		15.5	5.0
LCE64A	64.0	71.1	78.6	103		14.6	5.0

Note: 1. Surge current waveform per Fig. 3 and derate per Fig. 2

Typical Characteristics Curves

Fig.1- Peak Pulse Power Rating Curve

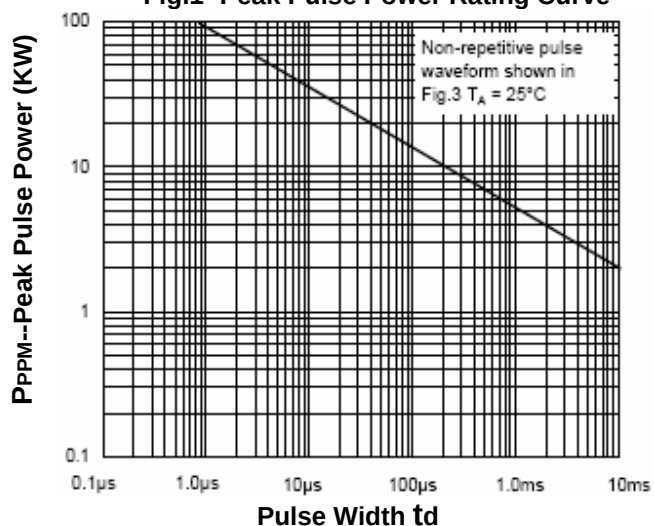
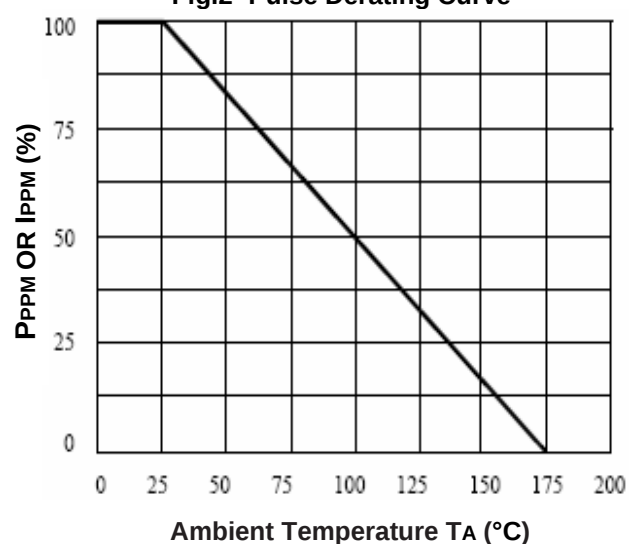


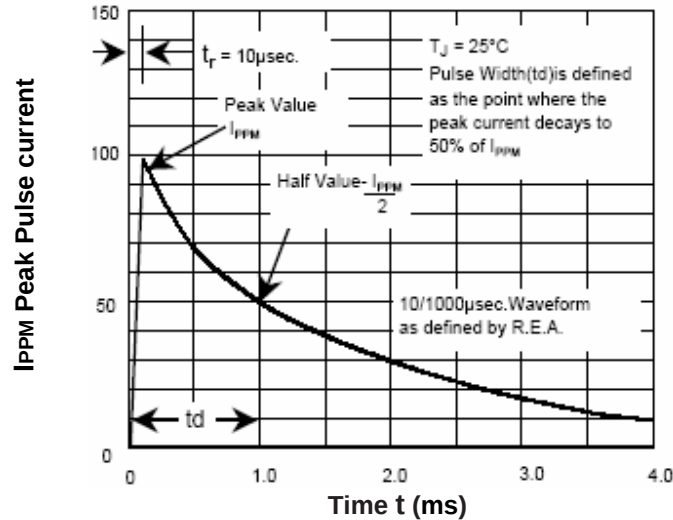
Fig.2- Pulse Derating Curve



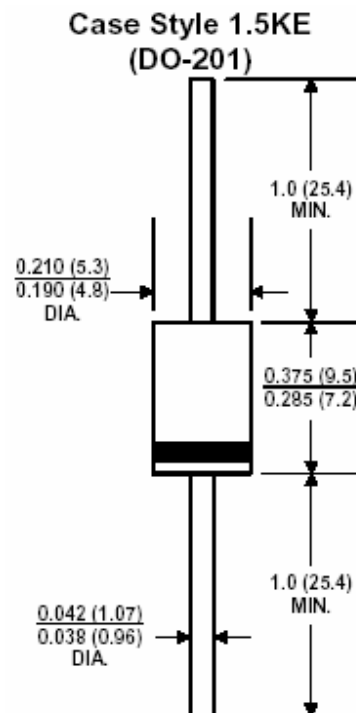
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Fig.3- Pulse Waveform



Dimensions: Inch (mm)



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