

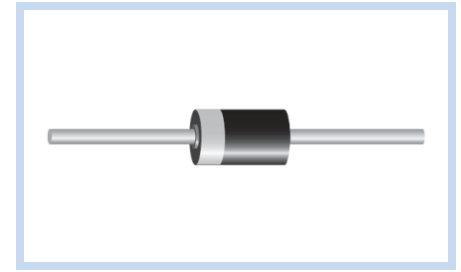
Transient Voltage Suppressors 1500W DO-201

LCE Series

MERITEK

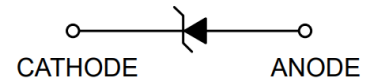
FEATURE

- 1500W Peak Pulse Power (10/1000 μ s Waveform)
- 6.5V to 90V Standoff Voltage
- Fast Response Time
- Glass Passivated Junction, Excellent Clamping Capability
- Low Incremental Surge Resistance
- UL Flammability Classification Rating 94V-0



MECHANICAL DATA

- Case: DO-201, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End



MAXIMUM RATINGS

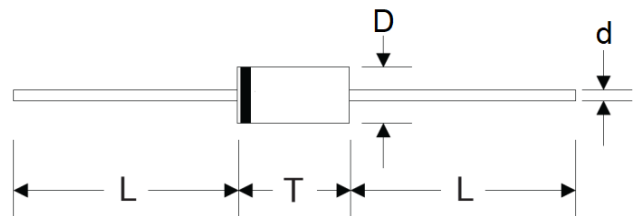
Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation On 10/1000 μ s Waveform	P_{PPM}	1500	W
Peak Pulse Current On 10/1000 μ s Waveform	I_{PPM}	See Table	A
Steady State Power Dissipation At $T_L = 75^\circ\text{C}$	$P_{M(AV)}$	6.5	W
Operating Junction And Storage Temperature Range	T_J, T_{STG}	-55 To +175	$^\circ\text{C}$

Note:

1. $T_A = 25^\circ\text{C}$ Ambient temperature unless otherwise specified.
2. Non-repetitive current pulse, and derated above $T_A = 25^\circ\text{C}$.

DIMENSIONS

DO-201	Min(mm)	Max(mm)
D	4.79	5.03
T	7.24	9.53
L	25.4	-
d	0.97	1.07



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ELECTRICAL CHARACTERISTICS

Part Number	Reverse Stand-off Voltage	Reverse Breakdown Voltage @I _T		Test Current	Max Reverse Leakage @V _{RW}	Max Clamping Voltage @I _{PP}	Max Reverse Surge Current	Max Junction Capacitance @0V	Working Inverse Blocking Voltage	Peak Inverse Blocking Voltage
	V _{RWM} (V)	V _{BR} (V) Min	V _{BR} (V) Max	I _T (mA)	V _C (V)	I _R (μA)	I _{PP} (A)	C _J (pF)	V _{WIB} (V)	V _{PIB} (V)
LCE6.5	6.5	7.22	8.82	10	1000	12.3	100	100	75	100
LCE6.5A	6.5	7.22	7.98	10	1000	11.2	100	100	75	100
LCE7.0	7.0	7.78	9.51	10	500	13.3	100	100	75	100
LCE7.0A	7.0	7.78	8.60	10	500	12.0	100	100	75	100
LCE7.5	7.5	8.33	10.20	10	250	14.3	100	100	75	100
LCE7.5A	7.5	8.33	9.21	10	250	12.9	100	100	75	100
LCE8.0	8.0	8.89	10.90	1	100	15.0	100	100	75	100
LCE8.0A	8.0	8.89	9.83	1	100	13.6	100	100	75	100
LCE8.5	8.5	9.44	11.5	1	50	15.9	94	100	75	100
LCE8.5A	8.5	9.44	10.4	1	50	14.4	100	100	75	100
LCE9.0	9.0	10.0	12.2	1	10	16.9	89	100	75	100
LCE9.0A	9.0	10.0	11.1	1	10	15.4	97	100	75	100
LCE10	10	11.1	13.6	1	5	18.8	80	100	75	100
LCE10A	10	11.1	12.3	1	5	17.0	88	100	75	100
LCE11	11	12.2	14.9	1	5	20.1	74	100	75	100
LCE11A	11	12.2	13.5	1	5	18.2	82	100	75	100
LCE12	12	13.3	16.3	1	5	22.0	68	100	75	100
LCE12A	12	13.3	14.7	1	5	19.9	75	100	75	100
LCE13	13	14.4	17.6	1	5	23.8	63	100	75	100
LCE13A	13	14.4	15.9	1	5	21.5	70	100	75	100
LCE14	14	15.6	19.1	1	5	25.8	58	100	75	100
LCE14A	14	15.6	17.2	1	5	23.2	65	100	75	100
LCE15	15	16.7	20.4	1	5	26.9	56	100	75	100
LCE15A	15	16.7	18.5	1	5	24.4	61	100	75	200
LCE16	16	17.8	21.8	1	5	28.8	52	100	75	200
LCE16A	16	17.8	19.7	1	5	26.0	57	100	75	200
LCE17	17	18.9	23.1	1	5	30.5	49	100	75	200
LCE17A	17	18.9	20.9	1	5	27.6	54	100	75	200
LCE18	18	20.0	24.4	1	5	32.2	46	100	75	200
LCE18A	18	20.0	22.1	1	5	29.2	51	100	75	200
LCE20	20	22.2	27.1	1	5	35.8	42	100	75	200
LCE20A	20	22.2	24.5	1	5	32.4	46	100	75	200
LCE22	22	24.4	29.8	1	5	39.4	38	100	75	200
LCE22A	22	24.4	26.9	1	5	35.5	42	100	75	200
LCE24	24	26.7	32.6	1	5	43.0	35	100	75	200
LCE24A	24	26.7	29.5	1	5	38.9	39	100	75	200
LCE26	26	28.9	35.3	1	5	46.6	32	100	75	200
LCE26A	26	28.9	31.9	1	5	42.1	36	100	75	200
LCE28	28	31.1	38.0	1	5	50.1	30	100	75	200
LCE28A	28	31.1	34.4	1	5	45.5	33	100	75	200
LCE30A	30	33.3	36.8	1	1	48.4	31	100	75	100
LCE33A	33	36.7	40.6	1	1	53.3	28	100	75	100
LCE36A	36	40.0	44.2	1	1	58.1	26	100	75	100
LCE40A	40	44.4	49.1	1	1	64.5	23	100	75	100
LCE43A	43	47.8	52.8	1	1	69.4	22	100	75	100
LCE45A	45	50.0	55.3	1	1	72.7	21	100	75	100
LCE48A	48	53.3	58.9	1	1	77.4	19	100	75	100
LCE51A	51	56.7	62.7	1	1	82.4	18	100	75	100
LCE54A	54	60.0	66.3	1	1	87.1	17	100	100	125
LCE58A	58	64.4	71.2	1	1	93.6	16	100	100	125
LCE60A	60	66.7	73.7	1	1	96.8	16	100	100	125
LCE64A	64	71.1	78.6	1	1	103	15	100	100	125
LCE70A	70	77.8	86.0	1	1	113	13	100	125	150

ELECTRICAL CHARACTERISTICS

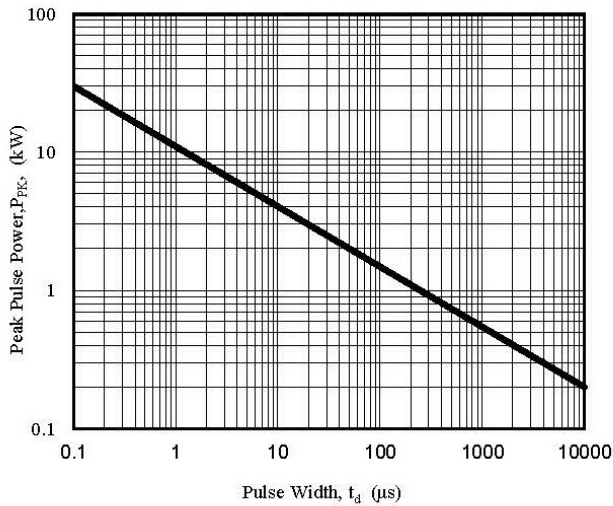
Part Number	Reverse Stand-off Voltage	Reverse Breakdown Voltage @ T_T		Test Current	Max Reverse Leakage @ V_{RW}	Max Clamping Voltage @ I_{PP}	Max Reverse Surge Current	Max Junction Capacitance @0V	Working Inverse Blocking Voltage	Peak Inverse Blocking Voltage
	$V_{RWM}(V)$	$V_{BR}(V)$ Min	$V_{BR}(V)$ Max	$I_T(mA)$	$V_C(V)$	$I_R(\mu A)$	$I_{PP}(A)$	$C_J(pF)$	$V_{WIB}(V)$	$V_{PIB}(V)$
LCE75A	75	83.3	92.1	1	1	121	12	100	125	150
LCE85A	85	94.4	104.0	1	1	129	12	100	125	150
LCE90A	90	100.0	111.0	1	1	146	10	100	125	150

Note:

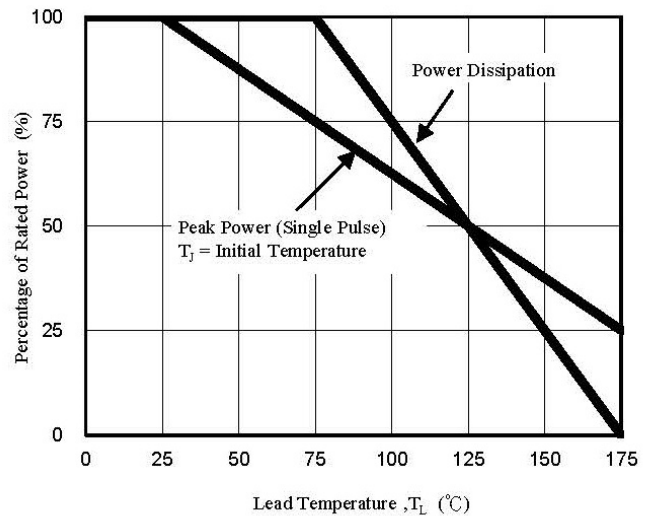
1. $T_A = 25^\circ C$ ambient temperature unless otherwise specified.
2. Inverse blocking leakage current I_{IB} at $V_{WIB} = 1mA$.

CHARACTERISTIC CURVES

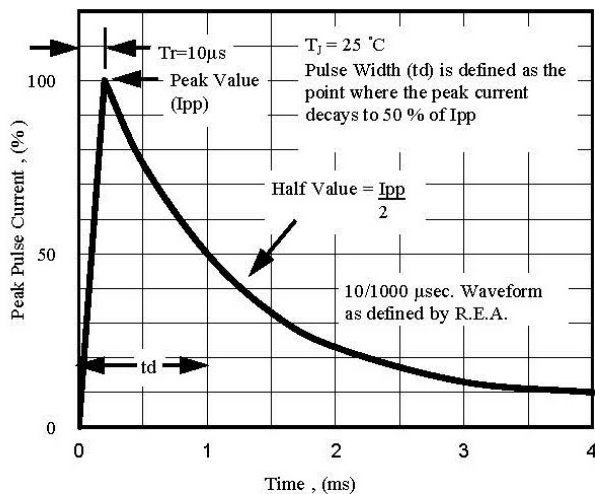
Peak Pulse Power Rating Curve



Power Derating Curve Surge Current



Pulse Waveform



*Specifications subject to change without notice.