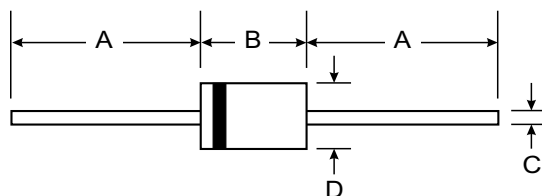


Features

- 1500W Peak Pulse Surge reverse capability on 10/1000 μ s waveform
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time : typically less than 5.0 ns from 0 volts to BV



DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

Mechanical Data

- Case : DO-201 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes positive end on the Transorb (cathode)
- Mounting position : Any
- Weight : 0.93 gram

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μ s waveform (Note 1, Figure 1)	PPPM	Minimum 1500	Watts
Steady State Power Dissipation at T _L = 75 °C Lead Lengths 0.375", (9.5mm) (Note 2)	P _D	5.0	Watts
Peak Pulse Power Surge Current on 10/1000 μ s Waveform (Fig. 3, Note 1)	I _{RSM}	See Table 1.	Amps.
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 175	°C

Note :

- (1) Non-repetitive Current pulse, per Fig. 3 and derated above T_a = 25 °C per Fig. 2
- (2) 8.3 ms single half sine-wave, duty cycle = 4 pulses per minutes maximum.

TYPE NUMBER	Breakdown Voltage @ It			Reverse Stand-off Voltage	Maximum Reverse Leakage @ VRWM	Maximum Clamping Voltage @ IRSM	Maximum Reverse Current	Maximum Junction Capacitance @ 0 Volt	Working Inverse Blocking Voltage	Max. Inverse Blocking Current @ VWIB	Peak Inverse Blocking Voltage
	VBR (V)		It	VRWM	IR	VRSM	IRSM	pF	VWIB	IIB	VPIB
	Min.	Max.	(mA)	(V)	(μA)	(V)	(A)		(V)	mA	(V)
LCE6.5CA	7.22	8.82	10	6.5	1000	12.3	100	100	75	1.0	100
LCE6.5A	7.22	7.98	10	6.5	1000	11.2	100	100	75	1.0	100
LCE7.0CA	7.78	9.51	10	7.0	500	13.3	100	100	75	1.0	100
LCE7.0A	7.78	8.60	10	7.0	500	12.0	100	100	75	1.0	100
LCE7.5CA	8.33	10.2	10	7.5	250	14.3	100	100	75	1.0	100
LCE7.5A	8.33	9.21	10	7.5	250	12.9	100	100	75	1.0	100
LCE8.0CA	8.89	10.9	10	8.0	100	15.0	100	100	75	1.0	100
LCE8.0A	8.89	9.83	10	8.0	100	13.6	100	100	75	1.0	100
LCE8.5CA	9.44	11.5	1.0	8.5	50	15.9	94	100	75	1.0	100
LCE8.5A	9.44	10.4	1.0	8.5	50	14.4	100	100	75	1.0	100
LCE9.0CA	10.0	12.2	1.0	9.0	10.0	16.9	89	100	75	1.0	100
LCE9.0A	10.0	11.1	1.0	9.0	10.0	15.4	97	100	75	1.0	100
LCE10CA	11.1	13.6	1.0	10	5.0	18.8	80	100	75	1.0	100
LCE10A	11.1	12.3	1.0	10	5.0	17.0	88	100	75	1.0	100
LCE11CA	12.2	14.9	1.0	11	5.0	20.1	74	100	75	1.0	100
LCE11A	12.2	13.5	1.0	11	5.0	18.2	82	100	75	1.0	100
LCE12CA	13.3	16.3	1.0	12	5.0	22.0	68	100	75	1.0	100
LCE12A	13.3	14.7	1.0	12	5.0	19.9	75	100	75	1.0	100
LCE13CA	14.4	17.6	1.0	13	5.0	23.8	63	100	75	1.0	100
LCE13A	14.4	15.9	1.0	13	5.0	21.5	70	100	75	1.0	100
LCE14CA	15.6	19.1	1.0	14	5.0	25.8	58	100	75	1.0	100
LCE14A	15.6	17.2	1.0	14	5.0	23.2	65	100	75	1.0	100
LCE15CA	16.7	20.4	1.0	15	5.0	26.9	56	100	75	1.0	100
LCE15A	16.7	18.5	1.0	15	5.0	24.4	61	100	75	1.0	100
LCE16CA	17.8	21.8	1.0	16	5.0	28.8	52	100	75	1.0	100
LCE16A	17.8	19.7	1.0	16	5.0	26.0	57	100	75	1.0	100
LCE17CA	18.9	23.1	1.0	17	5.0	30.5	49	100	75	1.0	100
LCE17A	18.9	20.9	1.0	17	5.0	27.6	54	100	75	1.0	100
LCE18CA	20	24.4	1.0	18	5.0	32.2	46	100	75	1.0	100
LCE18A	20	22.1	1.0	18	5.0	29.2	51	100	75	1.0	100
LCE20CA	22.2	27.1	1.0	20	5.0	35.8	42	100	75	1.0	100
LCE20A	22.2	24.5	1.0	20	5.0	32.4	46	100	75	1.0	100
LCE22CA	24.4	29.8	1.0	22	5.0	39.4	38	100	75	1.0	100
LCE22A	24.4	26.9	1.0	22	5.0	35.5	42	100	75	1.0	100
LCE24CA	26.7	32.6	1.0	24	5.0	43.0	35	100	75	1.0	100
LCE24A	26.7	29.5	1.0	24	5.0	38.9	39	100	75	1.0	100
LCE26CA	28.9	35.3	1.0	26	5.0	46.6	32	100	75	1.0	100
LCE26A	28.9	31.9	1.0	26	5.0	42.1	36	100	75	1.0	100
LCE28CA	31.1	38.0	1.0	28	5.0	50.1	30	100	75	1.0	100
LCE28A	31.1	34.4	1.0	28	5.0	45.5	33	100	75	1.0	100
LCE30CA	33.3	40.7	1.0	30	5.0	53.5	28	100	75	1.0	100
LCE30A	33.3	36.8	1.0	30	5.0	48.4	31	100	75	1.0	100
LCE33CA	36.7	44.9	1.0	33	5.0	59.0	25.4	100	75	1.0	100
LCE33A	36.7	40.6	1.0	33	5.0	53.3	28.1	100	75	1.0	100
LCE36CA	40.0	48.9	1.0	36	5.0	64.3	23.3	100	75	1.0	100
LCE36A	40.0	44.2	1.0	36	5.0	58.1	25.8	100	75	1.0	100
LCE40CA	44.4	54.3	1.0	40	5.0	71.4	21	100	75	1.0	100
LCE40A	44.4	49.1	1.0	40	5.0	64.5	23.3	100	75	1.0	100
LCE43CA	47.8	58.4	1.0	43	5.0	76.7	19.5	100	150	1.0	200
LCE43A	47.8	52.8	1.0	43	5.0	69.4	21.6	100	150	1.0	200

TYPE NUMBER	Breakdown Voltage @ I_t			Reverse Stand-off Voltage	Maximum Reverse Leakage @ V_{RWM}	Maximum Clamping Voltage @ I_{RSM}	Maximum Reverse Current	Maximum Junction Capacitance @ 0 Volt	Working Inverse Blocking Voltage	Max. Inverse Blocking Current @ V_{WIB}	Peak Inverse Blocking Voltage
	V_{BR} (V)		I_t	V_{RWM}	I_R	V_{RSM}	I_{RSM}	pF	V_{WIB}	I_{IB}	V_{PIB}
	Min.	Max.	(mA)	(V)	(μ A)	(V)	(A)		(V)	mA	(V)
LCE45CA	50.0	61.1	1.0	45	5.0	80.3	18.7	100	150	1.0	200
LCE45A	50.0	55.3	1.0	45	5.0	72.7	20.6	100	150	1.0	200
LCE48CA	53.3	65.1	1.0	48	5.0	85.5	17.5	100	150	1.0	200
LCE48A	53.3	58.9	1.0	48	5.0	77.4	19.4	100	150	1.0	200
LCE51CA	56.7	69.3	1.0	51	5.0	91.1	16.5	100	150	1.0	200
LCE51A	56.7	62.7	1.0	51	5.0	82.4	18.2	100	150	1.0	200
LCE54CA	60.0	73.3	1.0	54	5.0	96.3	15.6	100	150	1.0	200
LCE54A	60.0	66.3	1.0	54	5.0	87.1	17.2	100	150	1.0	200
LCE58CA	64.4	78.7	1.0	58	5.0	103	14.6	100	150	1.0	200
LCE58A	64.4	71.2	1.0	58	5.0	93.6	16	100	150	1.0	200
LCE60CA	66.7	81.5	1.0	60	5.0	107	14	90	150	1.0	200
LCE60A	66.7	73.7	1.0	60	5.0	96.8	15.5	90	150	1.0	200
LCE64CA	71.1	86.9	1.0	64	5.0	114	13.2	90	150	1.0	200
LCE64A	71.1	78.6	1.0	64	5.0	103	14.6	90	150	1.0	200
LCE70CA	77.8	95.1	1.0	70	5.0	125	12	90	150	1.0	200
LCE70A	77.8	86.0	1.0	70	5.0	113	13.3	90	150	1.0	200
LCE75CA	83.3	102	1.0	75	5.0	134	11.2	90	150	1.0	200
LCE75A	83.3	92.1	1.0	75	5.0	121	12.4	90	150	1.0	200
LCE80CA	88.7	108	1.0	80	5.0	142	10.6	90	150	1.0	200
LCE80A	88.7	98.0	1.0	80	5.0	129	11.6	90	150	1.0	200
LCE90CA	100	122	1.0	90	5.0	160	9.4	90	300	1.0	200
LCE90A	100	111	1.0	90	5.0	146	10.3	90	300	1.0	200
LCE100CA	111	141.0	1.0	100	5.0	179	9.4	90	300	1.0	200
LCE100A	111	128.0	1.0	100	5.0	162	9.3	90	300	1.0	200
LCE110CA	122	154.5	1.0	110	5.0	196	7.7	90	300	1.0	400
LCE110A	122	140.5	1.0	110	5.0	178	8.4	90	300	1.0	400
LCE120CA	133	169.0	1.0	120	5.0	214	7.0	90	300	1.0	400
LCE120A	133	153.0	1.0	120	5.0	193	7.8	90	300	1.0	400
LCE130CA	144	182.5	1.0	130	5.0	231	6.5	90	300	1.0	400
LCE130A	144	165.5	1.0	130	5.0	209	7.2	90	300	1.0	400
LCE150CA	167	211.5	1.0	150	5.0	268	5.6	90	300	1.0	400
LCE150A	167	192.5	1.0	150	5.0	243	6.2	90	300	1.0	400
LCE160CA	178	226.0	1.0	160	5.0	287	5.2	90	300	1.0	400
LCE160A	178	205.0	1.0	160	5.0	259	5.8	90	300	1.0	400
LCE170CA	189	239.5	1.0	170	5.0	304	4.9	90	300	1.0	400
LCE170A	189	217.5	1.0	170	5.0	275	5.4	90	300	1.0	400

FIG.1 - PEAK PULSE POWER RATING CURVE

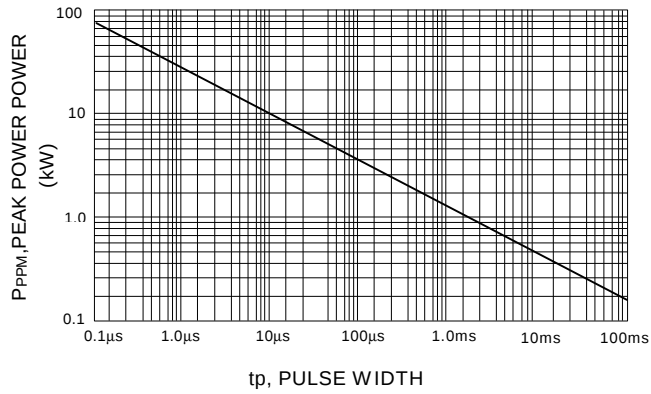


FIG.2 - PULSE DERATING CURVE

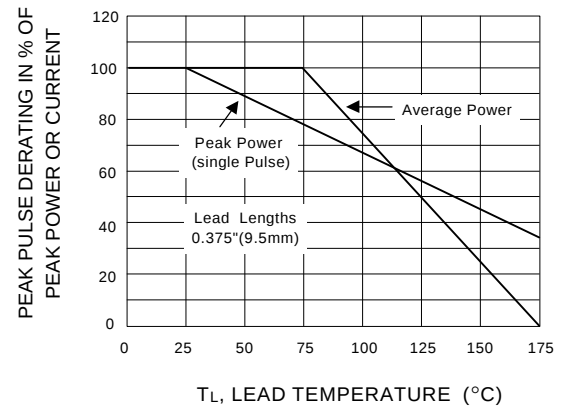


FIG.3 - PULSE WAVEFORM

