

查询LC10供应商

捷多邦，专业PCB打样工厂，24小时

加急出货

Microsemi Corp.

The diode experts

SANTA ANA, CA

SCOTTSDALE, AZ

For more information call:
(602) 941-6300

**LC6.5
thru
LC170A
LOW CAPACITANCE**



FEATURES

This series employs a standard TAZ in series with a rectifier with the same transient capabilities as the TAZ. The rectifier is used to reduce the effective capacitance up thru 100 MHz with a minimum amount of signal loss or deformation. The low capacitance TAZ may be applied directly across the signal line to prevent induced transients from lightning, power interruptions, or static discharge. If bipolar transient capability is required, two low-capacitance TAZ must be used in parallel, opposite in polarity for complete AC protection.

- 1500 WATTS OF PEAK PULSE POWER DISSIPATION AT 25°C AND 10 x 1000 μ s
- AVAILABLE IN RANGES FROM 6.5-200V
- LOW CAPACITANCE AC SIGNAL PROTECTION

MAXIMUM RATINGS

1500 Watts of Peak Pulse Power dissipation at 25°C
t_{clamping} (0 volts to V_(BR) min): Less than 5 x 10⁻⁹ seconds
Operating and Storage temperatures: -65° to +175°C
Steady State power dissipation: 1.0 W
Repetition Rate (duty cycle): .01%

ELECTRICAL CHARACTERISTICS

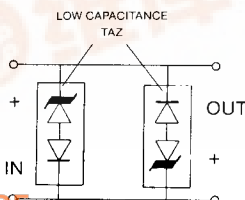
Clamping Factor: 1.4 @ Full Rated power
1.30 @ 50% Rated power

Clamping Factor: The ratio of the actual V_C (Clamping Voltage) to the actual V_(BR) (Breakdown Voltage) as measured on a specific device.

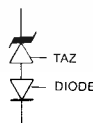
NOTE: When pulse testing, test in Avalanche direction. DO NOT pulse in forward direction.

APPLICATION

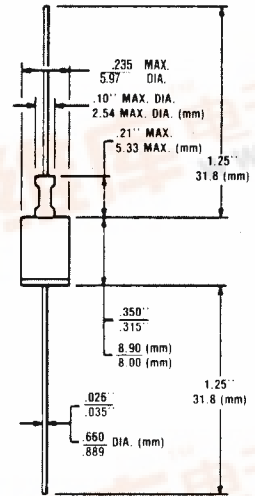
Devices must be used with two units in parallel, opposite in polarity, as shown in circuit for AC Signal Line protection:



SCHEMATIC



TRANSIENT ABSORPTION ZENER



MECHANICAL CHARACTERISTICS

CASE: DO-13, welded, hermetically sealed metal and glass.

FINISH: All external surfaces are corrosion resistant and leads solderable.

POLARITY: Cathode connected to case and marked.

WEIGHT: 1.4 grams (Appx.)

MOUNTING POSITION: Any



LC6.5 thru LC170A

ELECTRICAL CHARACTERISTICS @ 25°C

MICROSEM NUMBER	REVERSE STAND-OFF VOLTAGE		BREAKDOWN VOLTAGE (V _{BR})		@ Ft	MAXIMUM REVERSE LEAKAGE CURRENT I ₀	MAXIMUM CLIPPING VOLTAGE V _{CL}	MAXIMUM PEAK PULSE CURRENT I ₀ @ 1000 μS	CAPACITANCE @ 0 V	V _{BR} INVERSE BLOCKING VOLTAGE	I ₀ INVERSE BLOCKING CURRENT	V _{BR} PEAK INVERSE BLOCKING VOLTAGE
	V _{WM}	V _{WM}	Min.	Max.								
LC6.5	65	7.22	8.82	10	1000	12.3	100	100	75	1	100	
LC6.5A	65	7.22	7.98	10	1000	11.2	100	100	75	1	100	
LC7.0	70	7.78	9.51	10	500	13.3	100	100	75	1	100	
LC7.0A	70	7.78	8.60	10	500	12.0	100	100	75	1	100	
LC7.5	75	8.33	10.2	10	250	14.3	100	100	75	1	100	
LC7.5A	75	8.33	9.21	10	250	12.9	100	100	75	1	100	
LC8.0	80	8.89	10.9	1	100	15.0	100	100	75	1	100	
LC8.0A	80	8.89	9.93	1	100	13.5	100	100	75	1	100	
LC8.5	85	9.44	11.5	1	50	15.9	94	100	75	1	100	
LC8.5A	85	9.44	10.4	1	50	14.4	100	100	75	1	100	
LC9.0	90	10.0	12.2	1	10	16.9	89	100	75	1	100	
LC9.0A	90	10.0	11.1	1	10	15.4	97	100	75	1	100	
LC10	10	11.1	13.8	1	5	18.8	80	100	75	1	100	
LC10A	10	11.1	12.3	1	5	17.0	88	100	75	1	100	
LC11	11	12.2	14.9	1	5	20.1	74	100	75	1	100	
LC11A	11	12.2	13.5	1	5	18.2	82	100	75	1	100	
LC12	12	13.3	16.3	1	5	22.0	68	100	75	1	100	
LC12A	12	13.3	14.7	1	5	19.9	75	100	75	1	100	
LC13	13	14.4	17.6	1	5	23.8	63	100	75	1	100	
LC13A	13	14.4	15.9	1	5	21.5	70	100	75	1	100	
LC14	14	15.6	19.1	1	5	25.8	58	100	75	1	100	
LC14A	14	15.6	17.2	1	5	23.2	65	100	75	1	100	
LC15	15	16.7	20.4	1	5	26.9	56	100	75	1	100	
LC15A	15	16.7	18.5	1	5	24.4	61	100	75	1	100	
LC16	16	17.8	21.8	1	5	28.8	52	100	75	1	100	
LC16A	16	17.8	19.7	1	5	26.0	57	100	75	1	100	
LC17	17	18.9	23.1	1	5	30.5	49	100	75	1	100	
LC17A	17	18.9	20.9	1	5	27.6	54	100	75	1	100	
LC18	18	20.0	24.4	1	5	32.2	46	100	75	1	100	
LC18A	18	20.0	22.1	1	5	29.7	51	100	75	1	100	
LC20	20	22.2	27.1	1	5	35.6	42	100	75	1	100	
LC20A	20	22.2	24.5	1	5	32.4	46	100	75	1	100	
LC22	22	24.4	29.8	1	5	39.4	38	100	75	1	100	
LC22A	22	24.4	29.9	1	5	35.5	42	100	75	1	100	
LC24	24	26.7	32.6	1	5	43.0	35	100	75	1	100	
LC24A	24	26.7	29.5	1	5	38.9	39	100	75	1	100	
LC26	26	28.9	35.3	1	5	46.6	32	100	75	1	100	
LC26A	26	28.9	31.9	1	5	42.1	36	100	75	1	100	
LC28	28	31.1	38.0	1	5	50.1	30	100	75	1	100	
LC28A	28	31.1	34.4	1	5	45.4	33	100	75	1	100	
LC30	30	33.3	40.7	1	5	53.5	28	100	75	1	100	
LC30A	30	33.3	36.8	1	5	48.4	31	100	75	1	100	
LC33	33	36.7	44.9	1	5	58.0	25.4	100	75	1	100	
LC33A	33	36.7	40.6	1	5	53.3	28.1	100	75	1	100	
LC36	36	40.0	48.9	1	5	64.3	23.3	100	75	1	100	
LC36A	36	40.0	44.2	1	5	58.1	25.8	100	75	1	100	
LC40	40	44.4	54.3	1	5	71.4	21.9	100	75	1	100	
LC40A	40	44.4	49.1	1	5	64.5	23.3	100	75	1	100	
LC43	43	47.8	58.4	1	5	76.7	19.5	100	150	1	200	
LC43A	43	47.8	52.8	1	5	69.4	21.6	100	150	1	200	
LC45	45	50.0	61.1	1	5	80.3	18.7	100	150	1	200	
LC45A	45	50.0	55.3	1	5	72.7	20.6	100	150	1	200	
LC48	48	53.3	65.1	1	5	85.5	17.5	100	150	1	200	
LC48A	48	53.3	58.9	1	5	77.4	19.4	100	150	1	200	
LC51	51	56.7	69.3	1	5	91.1	16.5	100	150	1	200	
LC51A	51	56.7	62.7	1	5	82.4	18.2	100	150	1	200	
LC54	54	60.0	73.3	1	5	96.3	15.6	100	150	1	200	
LC54A	54	60.0	66.3	1	5	87.1	17.2	100	150	1	200	
LC58	58	64.4	78.7	1	5	103.0	14.6	100	150	1	200	
LC58A	58	64.4	71.2	1	5	93.5	16.0	100	150	1	200	
LC60	60	66.7	81.5	1	5	107.0	14.0	90	150	1	200	
LC60A	60	66.7	73.7	1	5	96.8	15.5	90	150	1	200	
LC64	64	71.1	86.9	1	5	114.0	13.2	90	150	1	200	
LC64A	64	71.1	78.6	1	5	103.0	14.6	90	150	1	200	
LC70	70	77.8	95.1	1	5	125	12.0	90	150	1	200	
LC70A	70	77.8	86.0	1	5	113	13.3	90	150	1	200	
LC75	75	83.3	102.0	1	5	134	11.2	90	150	1	200	
LC75A	75	83.3	92.1	1	5	121	12.4	90	150	1	200	
LC80	80	88.7	108	1	5	142	10.6	90	150	1	200	
LC80A	80	88.7	98.0	1	5	129	11.6	90	150	1	200	
LC90	90	100	122	1	5	190	9.4	90	300	1	200	
LC90A	90	100	111	1	5	146	10.3	90	300	1	200	
LC100	100	111	136	1	5	178	8.4	90	300	1	200	
LC100A	100	111	122	1	5	162	9.3	90	300	1	200	
LC110	110	122	149	1	5	196	7.7	90	300	1	400	
LC110A	110	122	135	1	5	178	8.4	90	300	1	400	
LC120	120	133	163	1	5	214	7.0	90	300	1	400	
LC120A	120	133	147	1	5	193	7.8	90	300	1	400	
LC130	130	144	176	1	5	231	6.5	90	300	1	400	
LC130A	130	144	159	1	5	209	7.2	90	300	1	400	
LC150	150	167	204	1	5	288	5.6	90	300	1	400	
LC150A	150	167	185	1	5	243	6.2	90	300	1	400	
LC160	160	178	218	1	5	287	5.2	90	300	1	400	
LC160A	160	178	197	1	5	259	5.8	90	300	1	400	
LC170	170	189	231	1	5	304	4.9	90	300	1	400	
LC170A	170	189	209	1	5	275	5.4	90	300	1	400	

NOTE 1: TAZ are normally selected according to the reverse "Stand Off Voltage (V_{WM})" which should be equal to or greater than the DC or continuous peak operating voltage level.