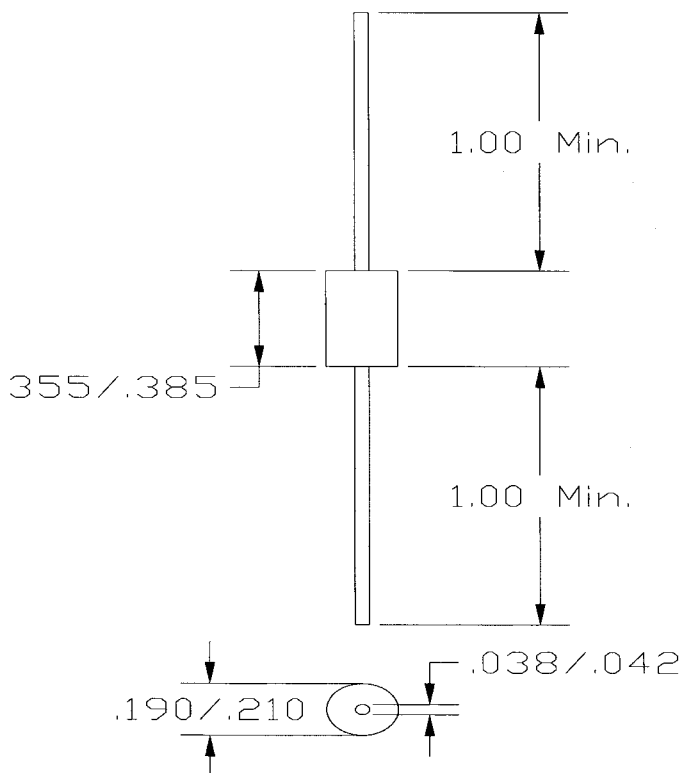


**SUSSEX**  
SEMICONDUCTOR, INC.

12251 TOWNE LAKE DRIVE, FORT MYERS, FLORIDA, 33913 • TEL: (239) 768-6800 • FAX: (239) 768-6868

**ULC6 SERIES  
ULTRA-LOW CAPACITANCE  
600 WATT TRANSIENT  
SUPPRESSOR SPECIFICATIONS**



All Dimensions In Inches

◆ ULC6 SERIES TRANSIENT SUPPRESSORS

◆ VOLTAGES - 6.8+

◆ 600 WATT MAXIMUM POWER DISSIPATION

**ULC SERIES  
ULTRA LOW CAPACITANCE DEVICE  
SPECIFICATIONS**

- ◆ Built With Sussex Glass Passivated Dies
- ◆ Each Device Individually Inspected
- ◆ Molded Epoxy Package
- ◆ Polarity Indicated By Solvent Resistant Marking
- ◆ Operating Temperature: -55 to 175°C
- ◆ Storage Temperature: -55 to 175°C
- ◆ Marked With Sussex Logo, Part Number, and Cathode Band
- ◆ Silver Plated Leads, Solderable Per MIL-STD-750

**For Additional Information and to request a quote call the factory at (239) 768-6800.**

## CUSTOM ORDERING SPECIFIER

DIE SPECIFICATIONS

**ULC6-**

DEVICE PART  
NUMBER

STANDOFF  
VOLTAGE

- ◆ BLANK INDICATES UNIPOLAR  
DEVICE ±10% ON  $V_{BR}$
- ◆ A INDICATES UNIPOLAR  
DEVICE ±5% ON  $V_{BR}$



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## ULC6 SERIES ULTRA-LOW CAPACITANCE 600 WATT TRANSIENT SUPPRESSOR SPECIFICATIONS

TABLE 5A - LCE SERIES TRANSIENT SUPPRESSOR ELECTRICAL SPECIFICATIONS (NOTE 1)

INDUSTRY STANDARD PART NUMBER	STANDOFF VOLTAGE (V <sub>SO</sub> ) Volts	MAX. REVERSE LEAKAGE (I <sub>R</sub> )@ V <sub>SO</sub> μA	REVERSE BREAKDOWN VOLTAGE (V <sub>BR</sub> ) @ I <sub>T</sub>		TEST CURRENT (I <sub>T</sub> ) mA	MAX. CLAMPING VOLTAGE (V <sub>CL</sub> ) @ PEAK PULSE CURRENT (I <sub>PP</sub> ) (NOTE 2)		MAX CAPACITANCE @ 0 VOLTS Pf
			MIN. Volts	MAX. Volts		V <sub>CL</sub> Volts	I <sub>PP</sub> Amps	
			ULC6-6.8	6.8		500	7.2	
ULC6-7	7	500	7.78	9.51	10	13.3	45.11	35
ULC6-7A	7	500	7.78	8.6	10	12	50.00	35
ULC6-7.5	7.5	250	8.33	10.2	10	14.3	41.96	35
ULC6-7.5A	7.5	250	8.33	9.21	10	12.9	46.51	35
ULC6-8	8	100	8.89	10.9	1	15	40.00	35
ULC6-8A	8	100	8.89	9.83	1	13.6	44.12	35
ULC6-8.5	8.5	50	9.44	11.5	1	15.9	37.74	35
ULC6-8.5A	8.5	50	9.44	10.4	1	14.4	41.67	35
ULC6-9	9	10	10	12.2	1	16.9	35.50	35
ULC6-9A	9	10	10	11.1	1	15.4	38.96	35
ULC6-10	10	5	11.1	13.6	1	18.8	31.91	35
ULC6-10A	10	5	11.1	12.3	1	17	35.29	35
ULC6-11	11	5	12.2	14.9	1	20.1	29.85	35
ULC6-11A	11	5	12.2	13.5	1	18.2	32.97	35
ULC6-12	12	5	13.3	16.3	1	22	27.27	35
ULC6-12A	12	5	13.3	14.7	1	19.9	30.15	35
ULC6-13	13	5	14.4	17.6	1	23.8	25.21	35
ULC6-13A	13	5	14.4	15.9	1	21.5	27.91	35
ULC6-14	14	5	15.6	19.1	1	25.8	23.26	35
ULC6-14A	14	5	15.6	17.2	1	23.2	25.86	35
ULC6-15	15	5	16.7	20.4	1	26.9	22.30	35
ULC6-15A	15	5	16.7	18.5	1	24.4	24.59	35
ULC6-16	16	5	17.8	21.8	1	28.8	20.83	35
ULC6-16A	16	5	17.8	19.7	1	26	23.08	35
ULC6-17	17	5	18.9	23.1	1	30.5	19.67	35
ULC6-17A	17	5	18.9	20.9	1	27.6	21.74	35
ULC6-18	18	5	20	24.4	1	32.2	18.63	35
ULC6-18A	18	5	20	22.1	1	29.2	20.55	35
ULC6-20	20	5	22.2	27.1	1	35.8	16.76	35
ULC6-20A	20	5	22.2	24.5	1	32.4	18.52	35
ULC6-22	22	5	24.4	29.8	1	39.4	15.23	35
ULC6-22A	22	5	24.4	26.9	1	35.5	16.90	35
ULC6-24	24	5	26.7	32.6	1	43	13.95	35
ULC6-24A	24	5	26.7	29.5	1	38.9	15.42	35
ULC6-26	26	5	28.9	35.3	1	46.6	12.88	35
ULC6-26A	26	5	28.9	31.9	1	42.1	14.25	35
ULC6-28	28	5	31.1	38	1	50.1	11.98	35
ULC6-28A	28	5	31.1	34.4	1	45.5	13.19	35
ULC6-30	30	5	33.3	40.7	1	53.5	11.21	35
ULC6-30A	30	5	33.3	36.8	1	48.4	12.40	35
ULC6-33	33	5	36.7	44.9	1	59	10.17	35

HIGHER VOLTAGES AVAILABLE. CONTACT FACTORY

### NOTES

- NOTE 1: ♦ ELECTRICAL CHARACTERISTICS ARE AT A JUNCTION TEMPERATURE (T<sub>J</sub>) OF 25°C
- NOTE 2: ♦ SURGE CURRENT WAVEFORM SHOWN IN FIGURE 2A ON PAGE
- ♦ PEAK PULSE POWER DERATING SHOWN IN FIGURE 3A ON PAGE



# SUSSEX

SEMICONDUCTOR, INC.

**ULC6 SERIES**  
**ULTRA-LOW CAPACITANCE**  
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TABLE 5A - LCE SERIES TRANSIENT SUPPRESSOR ELECTRICAL SPECIFICATIONS (NOTE 1)

INDUSTRY STANDARD PART NUMBER	STANDOFF VOLTAGE (V <sub>SO</sub> ) Volts	MAX. REVERSE LEAKAGE (I <sub>R</sub> )@V <sub>SO</sub> μA	REVERSE BREAKDOWN VOLTAGE (V <sub>BR</sub> ) @ I <sub>T</sub>		TEST CURRENT (I <sub>T</sub> ) mA	MAX. CLAMPING VOLTAGE (V <sub>CL</sub> ) @ PEAK PULSE CURRENT (I <sub>PP</sub> ) (NOTE 2)		MAX CAPACITANCE @ 0 VOLTS Pf
			MIN. Volts	MAX. Volts		V <sub>CL</sub> Volts	I <sub>PP</sub> Amps	
ULC6-33A	33	5	36.7	40.6	1	53.3	11.26	35
ULC6-36	36	5	40	48.9	1	64.3	9.33	35
ULC6-36A	36	5	40	44.2	1	58.1	10.33	35
ULC6-40	40	5	44.4	54.3	1	71.4	8.40	35
ULC6-40A	40	5	44.4	49.1	1	64.5	9.30	35
ULC6-43	43	5	47.8	58.4	1	76.7	7.82	35
ULC6-43A	43	5	48.8	52.8	1	69.4	8.65	35
ULC6-45	45	5	50	61.1	1	80.3	7.47	35
ULC6-45A	45	5	50	55.3	1	72.7	8.25	35
ULC6-48	48	5	53	65.1	1	85.5	7.02	35
ULC6-48A	48	5	53	58.9	1	77.4	7.75	35
ULC6-51	51	5	56.7	69.3	1	91.1	6.59	35
ULC6-51A	51	5	56.7	62.7	1	82.4	7.28	35
ULC6-54	54	5	60	73.3	1	96.3	6.23	35
ULC6-54A	54	5	60	66.3	1	87.1	6.89	35
ULC6-58	58	5	64.4	78.7	1	103	5.83	35
ULC6-58A	58	5	64.4	71.2	1	93.6	6.41	35
ULC6-60	60	5	66.7	81.5	1	107	5.61	35
ULC6-60A	60	5	66.7	73.7	1	96.8	6.20	35
ULC6-64	64	5	71.1	86.9	1	114	5.26	35
ULC6-64A	64	5	71.1	78.6	1	103	5.83	35
ULC6-70	70	5	77.8	95.1	1	125	4.80	35
ULC6-70A	70	5	77.8	86	1	113	5.31	35
ULC6-75	75	5	83.3	102	1	134	4.48	35
ULC6-75A	75	5	83.3	92.1	1	121	4.96	35
ULC6-80	80	5	88.7	108	1	142	4.23	35
ULC6-80A	80	5	88.7	98	1	129	4.65	35
ULC6-90	90	5	100	122	1	160	3.75	35
ULC6-90A	90	5	100	111	1	146	4.11	35
ULC6-100	100	5	111	136	1	179	3.35	35
ULC6-100A	100	5	111	123	1	162	3.70	35
ULC6-110	110	5	122	149	1	196	3.06	35
ULC6-110A	110	5	122	135	1	178	3.37	35
ULC6-120	120	5	133	163	1	214	2.80	35
ULC6-120A	120	5	133	147	1	193	3.11	35
ULC6-130	130	5	144	176	1	231	2.60	35
ULC6-130A	130	5	144	159	1	209	2.87	35
ULC6-150	150	5	167	204	1	268	2.24	35
ULC6-150A	150	5	167	185	1	243	2.47	35
ULC6-160	160	5	178	218	1	287	2.09	35
ULC6-160A	160	5	178	197	1	259	2.32	35
ULC6-170	170	5	189	231	1	304	1.97	35
ULC6-170A	170	5	189	209	1	275	2.18	35

HIGHER VOLTAGES AVAILABLE. CONTACT FACTORY

## NOTES

NOTE 1: ♦ ELECTRICAL CHARACTERISTICS ARE AT A JUNCTION TEMPERATURE (T<sub>J</sub>) OF 25°C

NOTE 2: ♦ SURGE CURRENT WAVEFORM SHOWN IN FIGURE 2A ON PAGE