

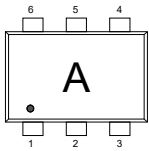
### ■ Features

- Uni-directional ESD protection of two lines
- 60Watts peak pulse power (tp = 8/20μs)
- Working voltage: 5V
- Low clamping voltage
- Low leakage current
- Ultra-low Capacitance:0.6pF (Typical)
- Protecting two I/O line
- Solid-state silicon technology
- IEC 61000-4-2 ±12kV contact ±17kV air
- IEC 61000-4-5 (Lightning) 4.5A (8/20μs)

### ■ Mechanical Data

- Package:SOT-563
- Molding compound flammability rating: UL 94V-0
- RoHS/WEEE Compliant

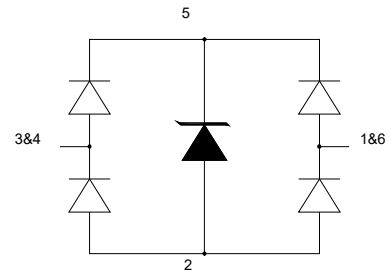
### ■ Ordering Information

Part Number	Package	Marking	Packing	Reel Size
USBLC6-2SC6	SOT-563		3000 Tape & Reel	7 inches

### ■ Applications

- HDMI/USB2.0
- Monitors and flat panel display
- 10/100/1000 ethernet
- Notebook computers
- SIM ports
- ATM interface

### ■ Schematic & PIN Configuration



**■ Absolute Maximum Rating( $T_A=25^{\circ}\text{C}$  unless otherwise Specified)**

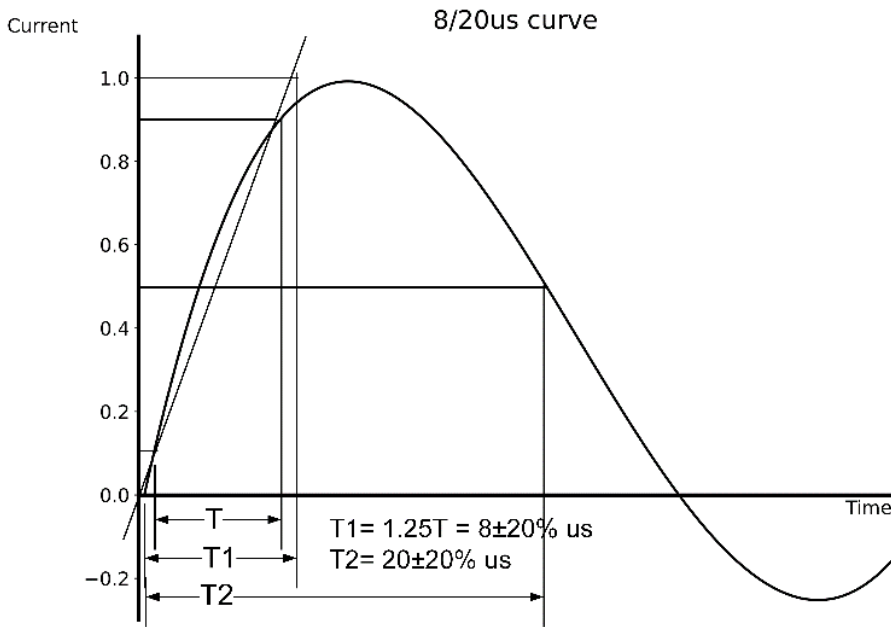
Parameters	Symbol	Min	Max	Unit
Peak pulse power (tp=8/20us)@25°C	$P_{pk}$	-	60	W
Peak pulse current (tp=8/20us)@25°C	$I_{PP}$		4.5	A
ESD (IEC61000-4-2 air discharge) @25°C	$V_{ESD}$	-	$\pm 17$	kV
ESD (IEC61000-4-2 contact discharge) @25°C	$V_{ESD}$	-	$\pm 12$	kV
Junction temperature	$T_J$	-	150	°C
Operating temperature	$T_{OP}$	-40	125	°C
Storage temperature	$T_{STG}$	-55	150	°C
Lead temperature	$T_L$	-	260	°C

**■ Electrical Characteristics( $T_A=25^{\circ}\text{C}$  unless otherwise Specified)**

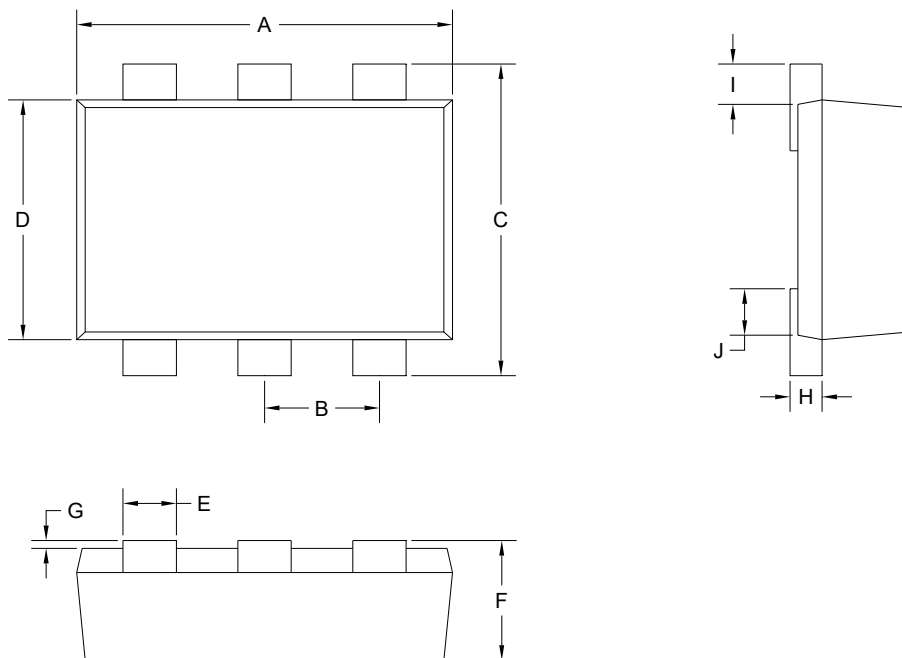
Parameters	Symbol	conditions	Min	Typ	Max	Unit
Reverse stand-off voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1\text{mA}$	6			V
Reverse Leakage Current	$I_R$	$V_{RWM}=5\text{V}$			1	$\mu\text{A}$
Peak Pulse Current	$I_{PP}$	TP=8/20us@25°C		4.5		A
Clamping Voltage	$V_{CL}$	$I_{PP}=1\text{A}$ ; TP=8/20us		8.5		
Clamping Voltage	$V_{CL}$	$I_{PP}=4.5\text{A}$ ; TP=8/20us		12		V
Junction capacitance	$C_J$	I/O pins to ground; $V_R=0\text{V}$ ; f = 1MHz		0.6		pF
		Between I/O pins; $V_R=0\text{V}$ ; f = 1MHz		0.3		



■ Typical Characteristics( $T_A=25^{\circ}\text{C}$  unless otherwise Specified)



■ Outline Drawing – SOT-563



Unit: mm

symbol	A	B	C	D	E	F	G	H	I	J
Min.	1.50	0.50	1.55	1			0.00	0	0.10	0.15
Max.	1.70	0.60	1.70	1			0.05	0	0.30	0.20

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