MSKSEMI















ESD

TVS

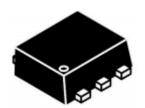
TSS

MOV

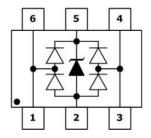
GDT

PLED

Broduct data sheet



SOT-666



PIN CONFIGURATION

FEATURES

- Ultra low leakage: nA level
- Operating voltage: 5V
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test Air discharge: ±15kV

Contact discharge: ±8kV

- IEC61000-4-4 (EFT) 40A (5/50ns)

RoHS Compliant

APPLICATIONS

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- **Notebook Computers**
- SIM Ports
- 10/100 Ethernet

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	120	W	
ESD per IEC 61000-4-2 (Air)	Vesd	±15	Kv	
ESD per IEC 61000-4-2 (Contact)	VESD	±8	IXV	
Operating Temperature Range	TJ	-55 to +125	$^{\circ}$	
Storage Temperature Range	Тѕтл	-55 to +150	°C	

Electrical Characteristics (TA=25°C unless otherwise specified)

P/N	Marking	V _{RWM} (V)	V _{BR} (V)	I⊤ (mA)	V₀ @1A	(Max)	(@A)	I _R µA (Max)	C (Pf) (Typ.)
USBLC6-2P6-MS	F	5	6	1	13	30	4	1	0.9

Characteristic Curves

Fig1. 8/20 µs Pulse Waveform

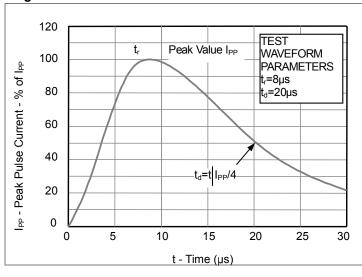


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

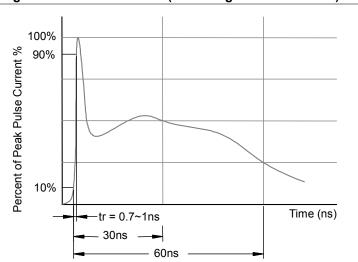
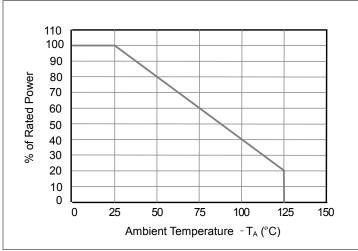


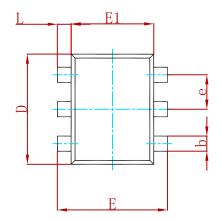
Fig3. Power Derating Curve

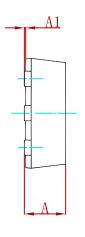


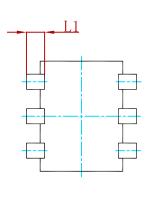


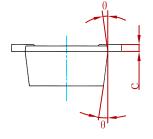


PACKAGE MECHANICAL DATA



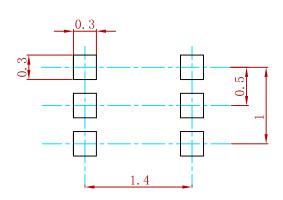






Symbol	Dimensions	In Millimeters	Dimensions in inches		
Symbol	Min.	Max.	Min.	Max.	
A	0. 525	0.600	0.021	0.024	
A1	0.000	0.050	0.000	0.002	
е	0.450	0. 550	0.018	0.022	
С	0.090	0.160	0.004	0.006	
D	1.500	1.700	0.059	0.067	
b	0.170	0. 270	0.007	0.011	
E1	1. 100	1. 300	0.043	0.051	
Е	1.500	1.700	0.059	0.067	
L	0.100	0.300	0.004	0.012	
L1	0. 200	0.400	0.008	0.016	
θ		7 ORFF		7 ORFF	

Suggested Pad Layout



- 1.Controlling dimension:in millimeters. 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
USBLC6-2P6-MS	SOT-666	3000



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