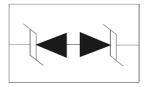


Discription

The LESD8LL5.0C is designed top rotect voltage sensitive components from ESD.

Excellent clamping capability, low leakage, and fast response time ,make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium.



Features

- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000 -4-2 Level 4 ESD Protection
- We declare that the material of product compliant with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.

Applications

- Cellular phones audio
- MP3 players
- Digital cameras
- Portable applicationss
- mobile telephone

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±15 ±8	kV kV
ESD Voltage Per Human Body Model		16	kV
Total Power Dissipation on FR-5 Board (Note 1)	PD	200	mW
@ T _A =25℃			
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	${\mathbb C}$
Lead Solder Temperature – Maximum (10	TL	260	$^{\circ}$
Second Duration)			

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. FR-5 = 1.0*0.75*0.62 in.

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ELECTRICAL CHARACTERISTICS

Device	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)	I _T	V _C (V) @ I _{PP} = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	I _{PP} (A) (Note 3)	P _{PK} (W) (Note 3)	C (p	oF)
	Max	Max	Min	mA	Max	Max	Max	Max	Тур	Max
LESD8LL5.0C	5	0.5	6	1.0	12	20	4	80	0.25	0.3

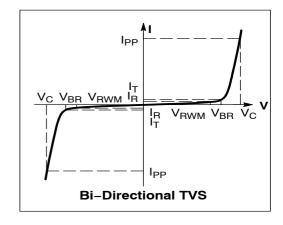
Other voltage available upon request.

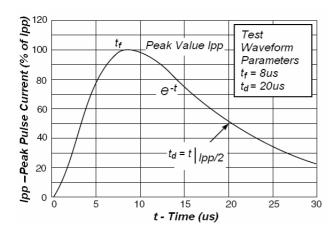
- 3. Surge current waveform per Figure 1.

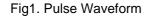
ELECTRICAL CHARACTERISTICS

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ I _{PP}		
V_{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ I _T		
I _T	Test Current		
P _{pk}	Peak Power Dissipation		
С	Capacitance @ $V_R = 0$ and $f = 1.0$ MHz		







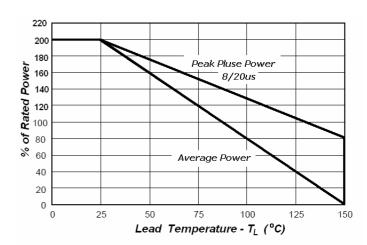
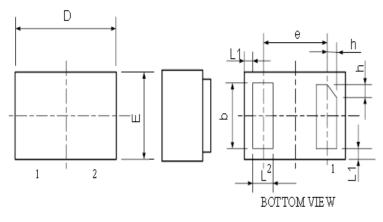
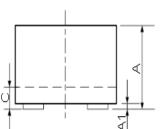


Fig2.Power Derating Curve



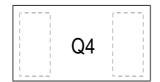
SOD882 PACKAGE OUTLINE DIMENSIONS





Symbol	Dimensions In Millimeters			
Symbol	Minimum	Maximum		
Α	0.450	0.550		
A1	0.000	0.050		
b	0.45	0.55		
С	0.12	0.18		
D	0.950	1.050		
е	0.65BSC			
E	0.550	0.650		
L	0.200	0.300		
L1	0.05REF			
h	0.07	0.17		

Marking



Ordering information

Order code	Package	Baseqty	Deliverymode
LESD8LL5.0CT5G	SOD-882	10000	Tape and reel

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