

LESD8LL3.3T5G ESD PROTECTION DIODE

Discription

The LESD8LL3.3T5G 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.

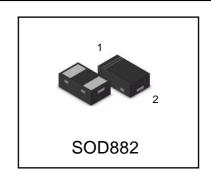
Applications

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

Features

- I Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- I IEC61000-4-2 Level 4 ESD Protection
- I We declare that the material of product compliant with RoHS requirements and Halogen Free.

LESD8LL3.3T5G





Ordering information

Device	Marking	Shipping
LESD8LL3.3T5G	Q7	10000/Tape&Reel

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±16 ±16	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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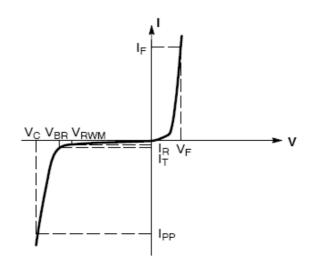


LESD8LL3.3T5G

ELECTRICAL CHARACTERISTICS

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

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



Uni-Directional TVS

ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}		(V) = 1 mA ote 1)	V _C (V) @ I _{PP} = 1 A (Note 2)	V _C (V) @MAX I _{PP} (Note 2)	I _{PP} (A) (Note 2)	P _{PK} (W) (Note 2)	C	(pF)
Device	Max	Max	Min	Max	Max	Max	Max	Max	Тур	Max
LESD8LL3.3T5G	3.3	0.5	4.5	7.8	10	14	5	70	0.5	0.6

Other voltage available upon request.

- 1. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 $^{\circ}{
 m C}$
- 2. Surge current waveform per Figure 1.

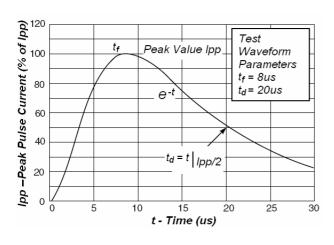


Fig1. Pulse Waveform

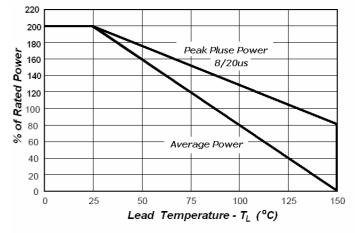


Fig2.Power Derating Curve

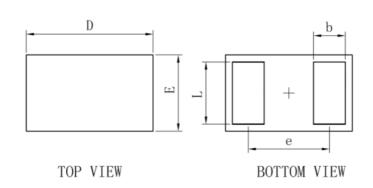
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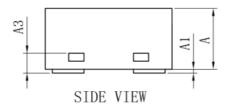
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OUTLINE AND DIMENSIONS

SOD882

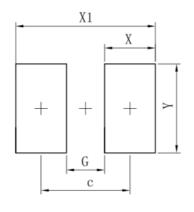


S0D882				
Dim	Min	Тур	Max	
D	0.95	1.00	1.05	
Е	0.55	0.60	0.65	
е	-	0.64	-	
L	0.44	0.49	0.54	
b	0.20	0. 25	0.30	
A	0.43	0.48	0. 53	
A1	0	-	0.05	
А3	0. 127REF.			
All Dimensions in mm				



SOLDERING FOOTPRINT

S0D882



Dimensions	(mm)
С	0.70
G	0.30
X	0.40
X1	1.10
Y	0. 70

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