

LESD8LL3.3T5G ESD PROTECTION DIODE

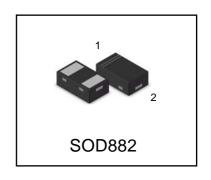
Discription

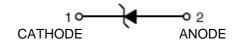
The LESD8LL3.3T5G is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, digital cameras and many other portable applications where board space is at a premium.

Applications

- I Cellular phones audio
- I Digital cameras
- I Portable applications
- I Mobile telephone

LESD8LL3.3T5G





Ordering information

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

Features

- I Low Leakage
- I Response Time is Typically < 1 ns
- I ESD Rating of Class 3 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.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±16 ±16	kV kV
Total Power Dissipation on FR-5 Board (Note 1) @ T_A =25 $^{\circ}$ C	PD	200	mW
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	$^{\circ}$
Lead Solder Temperature - Maximum (10	TL	260	$^{\circ}$ C
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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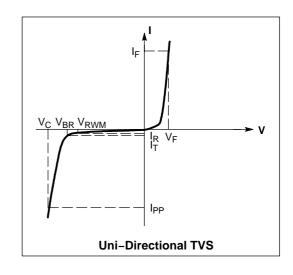


LESD8LL3.3T5G

ELECTRICAL CHARACTERISTICS

(T_A = 25°C 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	
I _F	Forward Current	
V _F	Forward Voltage @ I _F	
P _{pk}	Peak Power Dissipation	
С	Capacitance @ V _R = 0 and f = 1.0 MHz	

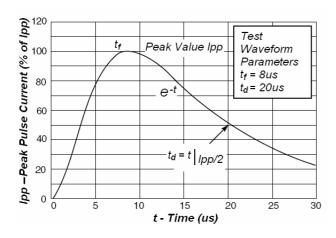


ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}		(V) = 1 mA te 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	3.8	7.8	10	14	4	65	0.5	0.6

Other voltage available upon request.

- 2. Surge current waveform per Figure 1.



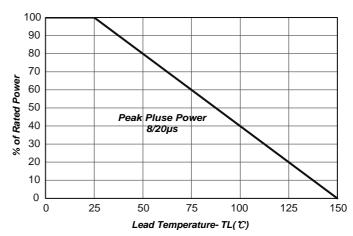


Fig1. Pulse Waveform

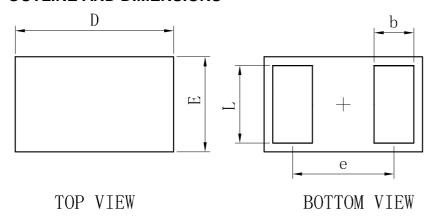
Fig2.Power Derating Curve

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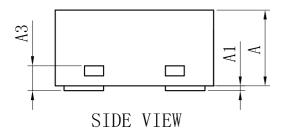


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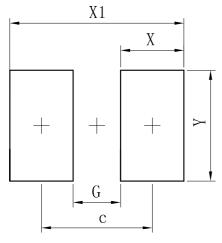
OUTLINE AND DIMENSIONS



S0D882				
Dim	Min	Тур	Max	
D	0. 95	1.00	1.05	
Е	0. 55	0.60	0.65	
е	1	0.64	ı	
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	A3 0. 127REF.			
All Dimensions in mm				



SOLDERING FOOTPRINT



Dimensions	(mm)
С	0.70
G	0.30
X	0.40
X1	1. 10
Y	0.70

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DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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