

LESD11LL3.3CT5G ESD PROTECTION DIODE

Discription

The LESD11LL3.3CT5G 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

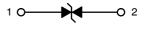
- I Cellular phones audio
- I Digital cameras
- I Portable applications
- I Mobile telephone

Features

- I Small Body Outline Dimensions: 0.61 mm x 0.31 mm
- I Low Body Height: 0.28 mm
- I Low Leakage
- I Response Time is Typically < 1 ns
- I IEC61000-4-2 Level 4 ESD Protection
- I These are Pb-Free Devices
- We declare that the material of product compliance with RoHS requirements.

LESD11LL3.3CT5G







K = Specific Device CodeM = Month Code

Ordering information

Device	Marking	Shipping	
LESD11LL3.3CT5G	K	15000/Tape&Reel	

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±16 ±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	$^{\circ}$ 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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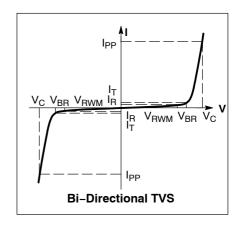


LESD11LL3.3CT5G

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	

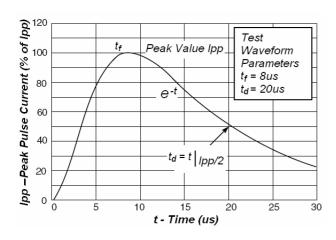


ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)	Ιτ	V _C (V) @ I _{PP} = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	I _{PF} (A) (Note 3)	P _{PK} (W) (Note 3)	C (p	oF)
Device	Max	Max	Min	mA	Max	Max	Max	Max	Тур	Max
LESD11LL3.3CT5G	3.3	0.5	4.7	1.0	12	18	4	72	0.25	0.35

Other voltage available upon request.

- 3. Surge current waveform per Figure 1.



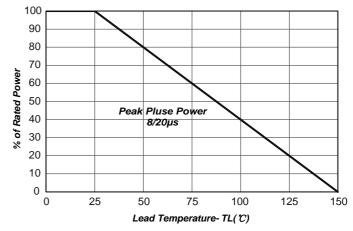


Fig1. Pulse Waveform

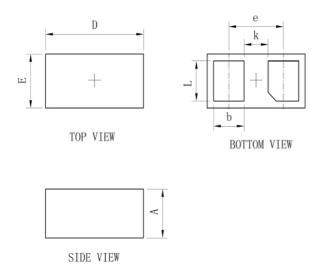
Fig2.Power Derating Curve

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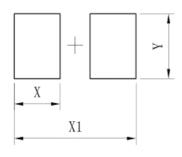
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OUTLINE AND DIMENSIONS



DFN0603-DL				
Dim	Min	Тур.	Max	
D	0.58	0.61	0.64	
Е	0.28	0.31	0.34	
е	-	0.34	-	
L	0.20	0.23	0.26	
b	0.16	0.19	0.22	
Α	0.25	0.28	0.31	
k	0.12	0.15	0.18	
All Dimensions in mm				

SOLDERING FOOTPRINT



DFN0603-DL		
DIM	(mm)	
Х	0.23	
X1	0.61	
Υ	0.30	

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