

LESD11LLF5.0CT5G ESD PROTECTION DIODE

Discription

The LESD11LLF5.0CT5G 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.

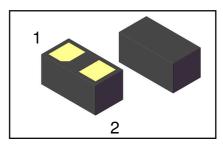
Applications

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

Features

- Small Body Outline Dimensions: 0.61 mm x 0.31 mm
- Low Body Height: 0.28 mm
- 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
- These are Pb-Free Devices
- We declare that the material of product compliance with RoHS requirements.

LESD11LLF5.0CT5G



DFN0603-D



Ordering information

Device	Marking	Shipping	
LESD11LLF5.0CT5G	С	15000/Tape&Reel	

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge		±14	kV
Contact discharge		±14	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	$^{\circ}$
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.

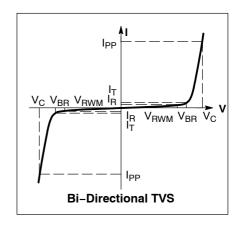


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ELECTRICAL CHARACTERISTICS

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

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	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	

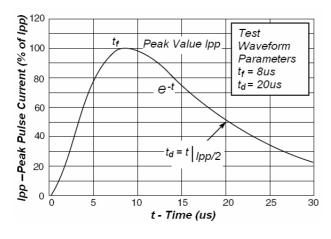


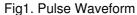
ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (μ A) @ 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)
Device	Max	Max	Min	mA	Max	Max	Max	Max	Тур	Max
LESD11LLF5.0CT5G	5	0.5	6	1.0	12	17	2.5	42	0.15	0.2

Other voltage available upon request.

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





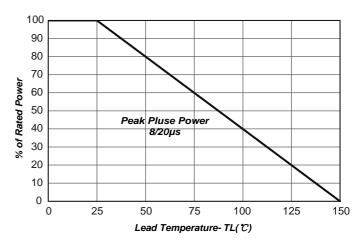


Fig2.Power Derating Curve

Nov,2017 Rev.A 2/4



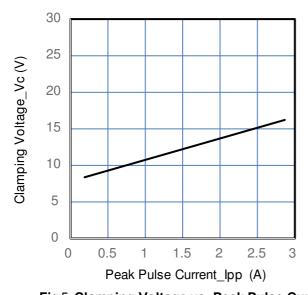
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Fig3. ESD Clamping Voltage Screenshot Positive 8 kV Contact per IEC61000-4-2



Fig4. ESD Clamping Voltage Screenshot Negative 8 kV Contact per IEC61000-4-2



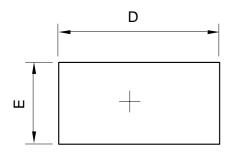
 $\textbf{Fig}\, 5. \textbf{Clamping Voltage vs. Peak Pulse Current}$

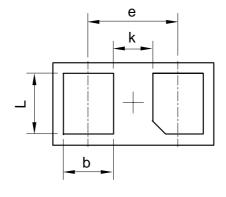
Nov,2017 Rev.A 3/4



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OUTLINE AND DIMENSIONS





TOP VIEW

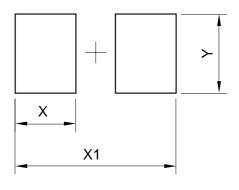
BOTTOM VIEW

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				



SIDE VIEW

SOLDERING FOOTPRINT



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

Nov,2017 Rev.A 4/4

单击下面可查看定价,库存,交付和生命周期等信息

>>LRC(乐山无线电)