



LESD11D3.3CT5G ESD PROTECTION DIODE

Discription

The LESD11D3.3CT5G 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, 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

- 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.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±25 ±20	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	°C
Lead Solder Temperature – Maximum (10	TL	260	°C
Second Duration)			

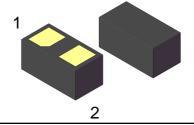
Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

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

Ordering information

Device	Marking	Shipping
LESD11D3.3CT	5G B	15000/Tape&Reel

LESD11D3.3CT5G



DFN0603-D

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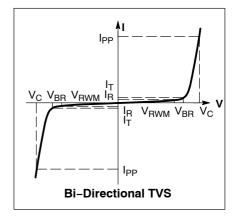


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ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ IPP		
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		



ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)		ΙŢ	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)	С (рF)
Device	Max	Max	Min	Max	mA	Мах	Max	Max	Max	Max
LESD11D3.3CT5G	3.3	0.1	5.0	6.5	1.0	7	10	6	60	16

Other voltage available upon request.

2. V_{BR} is measured with a pulse test current IT at an ambient temperature of $25\,^\circ\!\!\mathbb{C}$

3. Surge current waveform per Figure 1.

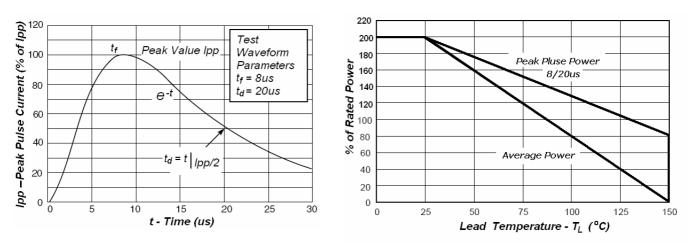
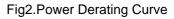


Fig1. Pulse Waveform







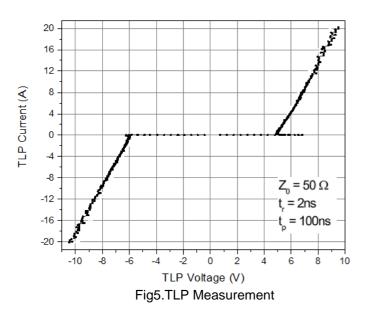
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Fig3.Positive 8 kV Contact per IEC61000.4.2



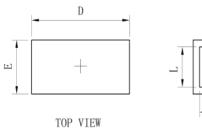
Fig4.Negative 8 kV Contact per IEC61000.4.2

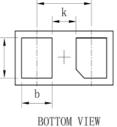




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OUTLINE AND DIMENSIONS





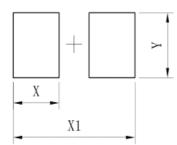
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SIDE VIEW

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

SOLDERING FOOTPRINT



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