

LESD11D12T5GESD PROTECTION DIODE

Discription

The LESD11D12T5G is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD. 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
- We declare that the material of product compliance with RoHS requirements.

LESD11D12T5G





DFN0603-DL



H = Specific Device CodeM = Month Code

Ordering information

Device	Marking	Shipping	
LESD11D12T5G	Н	15000/Tape&Reel	

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air Contact Contact discharge		±15 ±8	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	$^{\circ}$
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.

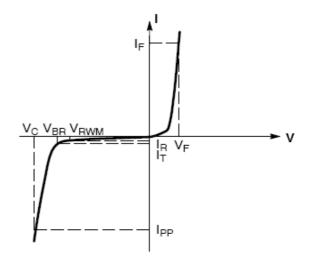


LESD11D12T5G

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	Max. Capacitance @V _R = 0 and f = 1 MHz



Uni-Directional TVS

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted, VF=0.9V Max. @ IF=10Ma for all types)

	V_{RWM}	I _R	V_{BR}	Ι _Τ	I _{PP}	Vc	P _{PK}	С
	(V)	(µ A)	(V)	(mA)	(A)	(V)	(W)	(pF)
Device		@	@ I _T			@ Max I _{PP}	(8*20 µs)	
		V_{RWM}	(Note 2)		(Note 3)	(Note 3)		
	Max	Max	Min		Max	Max	Max	Тур
LESD11D12T5G	12	1.0	13.3	1.0	4	20	80	15

- 3. Surge current waveform per Figure 3.



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TYPICAL CHARACTERISTICS

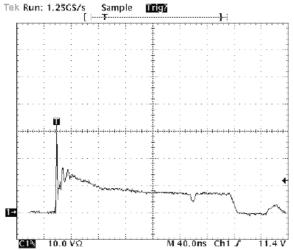


Figure 1. Positive 8kV contact per IEC

61000-4-2-LESD11D12T5G

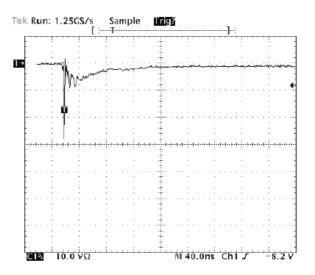


Fig 2. Negative 8kV contact per IEC 61000-4-2-LESD11D12T5G

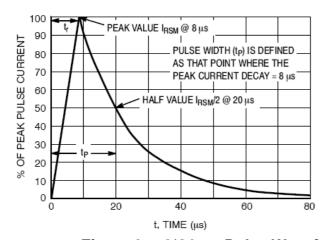
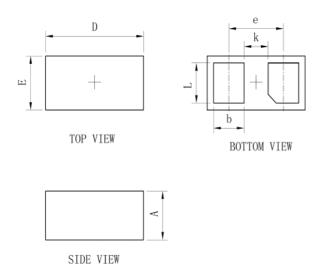


Figure 3. 8*20 µs Pulse Waveform



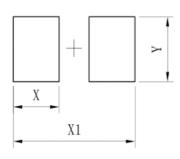
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OUTLINE AND DIMENSIONS



DFN0603-DL				
Dim	m Min Typ		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	

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)