

Discription

The ESD11LL5.0C protects sensitive semiconductor components from damage or upset due to electrostatic discharge (ESD) and other voltage induced transient events. Excellent clamping capability, low leakage, low capacitance, and fast response time provide best in class protection on designs that are exposed to ESD.

It gives designer the flexibility to protect one bi-directional line in applications where arrays are not practical.



DFN0603-2L

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 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 and Halogen Free.



Circuit Diagram

Ordering information

Product ID	Pack	Qty(PCS)	
ESD11LL5.0C	DFN0603-2L	15000	

Absolute Ratings (T_{amb}=25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t₀ = 8/20µs)	80	W
T _L	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
T _j	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	±20 ±16	KV

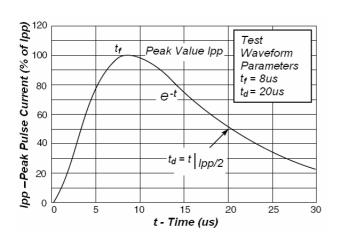


ELECTRICAL CHARACTERISTICS

	V_{RWM}	I_R	V _B	R	I _T	I _{PP}	V _C	P_{PK}	С
	(V)	(µ A)	(V)	(mA)	(A)	(V)	(W)	(pF)
Device		@	@	l _T			@ Max I _{PP}	(8*20 µs)	
B01100		V_{RWM}	(Note	e 1)					
	Max	Max	Min	Max		Max	Max	Max	Тур
ESD11LL5.0C	5.0	0.5	6	8.8	1.0	4	20	80	0.35

Other voltage available upon request.

- 3. Surge current waveform per Figure 1.



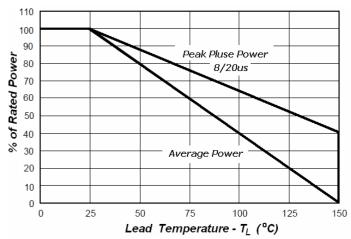


Fig1. Pulse Waveform

Fig2.Power Derating Curve

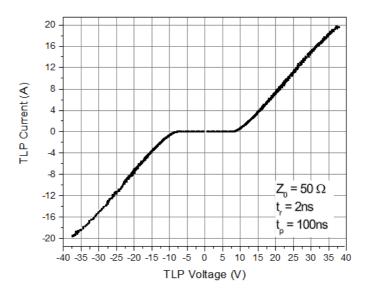
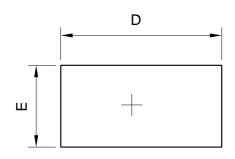
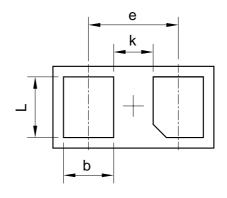


Fig3.TLP Measurement



OUTLINE AND DIMENSIONS

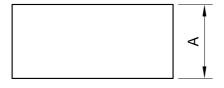




TOP VIEW

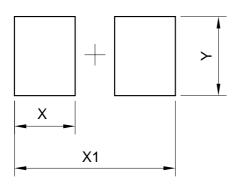
BOTTOM VIEW

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)		
Χ	0.23	
X1	0.61	
Υ	0.30	

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