

Discription

The HESD5431XZ 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</p>
- ★ 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

Orderingin formation

Product ID	roduct ID Pack Qty(PCS)	
HESD5431XZ	DFN0603-2L	15000

Absolute Ratings(Tamb = 25° C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _P = 8/20µs)	90	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
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharg contact discharg		KV



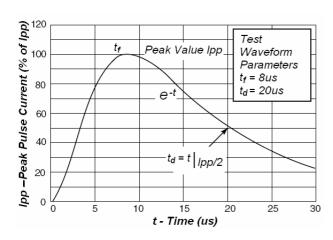
Electrical Characteristics

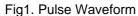
	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}		V) @ I _T ote 2)	Ι _Τ	V _C (V) @ I _{PP} = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	I _{PP} (A) (Note 3)	P _{PK} (W) (Note 3)	C (pF)
Device	Max	Max	Min	Max	mA	Max	Max	Max	Max	Тур
HESD5431XZ	3.3	0.1	5.0	6.5	1.0	7	10	5	90	12

Other voltage available upon request.

- 3. Surge current waveform per Figure 1.

Typical Characteristics





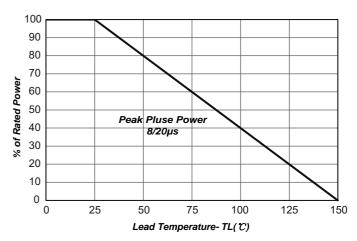


Fig2.Power Derating Curve

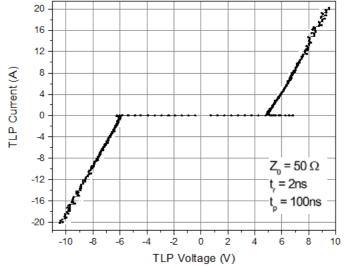
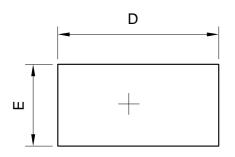
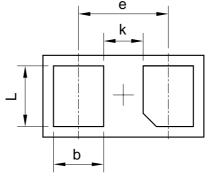


Fig3.TLP Measurement

Outline And Dimensions

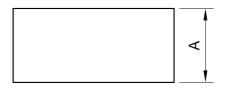




BOTTOM VVIEW

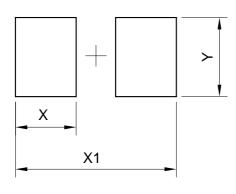
DFN0603-2L				
Dim	Min	Min Typ.		
D	0.58	0.61	0.64	
Е	0.28	0.31	0.34	
е	-	0.34	-	
L	0.20	0.23	0.26	
р	0.16	0.19	0.22	
Α	0.25	0.28	0.31	
k	0.12	0.15	0.18	
All Dimensions in mm				





SSIDE VIEW

Soledering Footprint



DFN0603-2L		
DIM	(mm)	
Χ	0.23	
X1	0.61	
Υ	0.30	



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