Discription

The HESDM3031MXT5G 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

Orderingin formation

Product ID	Pack	Qty(PCS)
HESDM3031MXT5G	DFN0603-2L	15000

Absolute Ratings(Tamb = 25° C)

Symbol	Parameter	Value	Units	
P_{PP}	Peak Pulse Power (t _P = 8/20μs)		90	W
TL	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 discha contact discha		±25 ±20	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
HESDM3031MXT5G	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

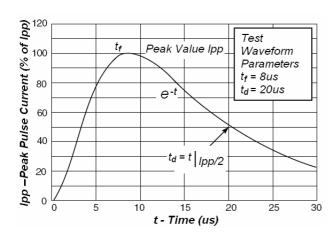


Fig1. Pulse Waveform

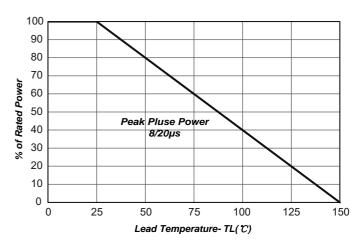


Fig2.Power Derating Curve

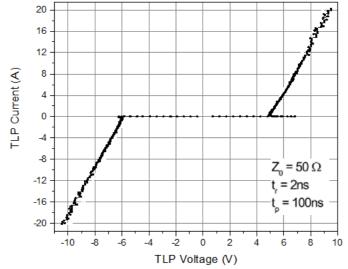
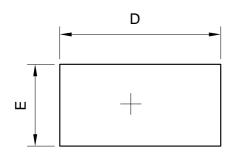
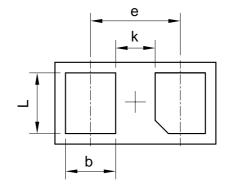


Fig3.TLP Measurement



Outline And Dimensions





TOP VIEW

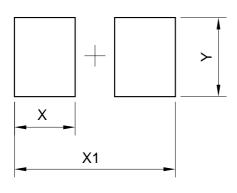
BOTTOM VVIEW

DFN0603-2L					
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					



SSIDE VIEW

Soledering Footprint



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



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