Discription

The HESD5481MUT5G 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.

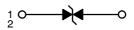
It gives designer the flexibility to protect one bi-directional line in applications where arrays are not practical.



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)
HESD5481MUT5G	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
		discharge lischarge	±30 ±30	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)	
Devide		V_{RWM}	(Note	e 1)					
	Max	Max	Min	Max		Max	Max	Max	Тур
HESD5481MUT5G	5.0	1.0	5.7	8.0	1.0	9.0	10	90	15

Other voltage available upon request.

- 2. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 $^{\circ}{\rm C}$
- 3. Surge current waveform per Figure 3.

Typical Characteristics

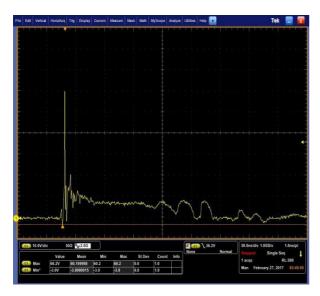
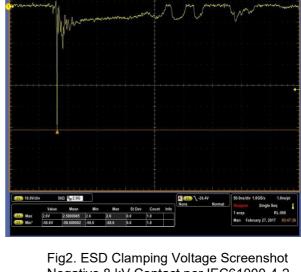


Fig1. ESD Clamping Voltage Screenshot Positive 8 kV Contact per IEC61000-4-2



Negative 8 kV Contact per IEC61000-4-2

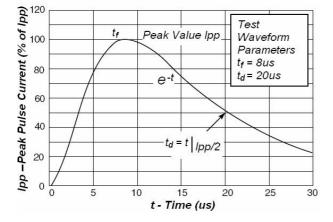


Fig3. Pulse Waveform

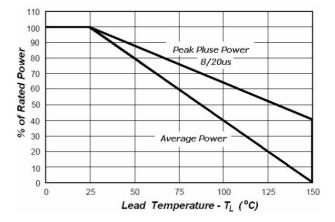
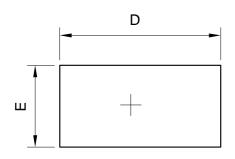
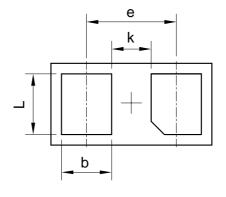


Fig4.Power Derating Curve

Outline And Dimensions





TOP VIEW

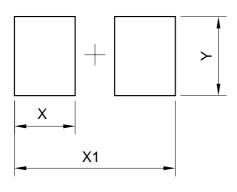
BOTTOM VVIEW

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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