Discription

The HPESD5V0V1BL 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.



DFN1006-2L

Features

- ★ 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)		
HPESD5V0V1BL	DFN1006-2L	10000		

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P_{PP}	Peak Pulse Power (tp = 8/20µs)	66	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		°C
	IEC61000-4-2 (ESD) air discharge contact discharge	±25 ±20	KV

Electrical Characteristics

	V _{RWM} (V)	I _{R1} (μΑ) @ V _{RWM}	I _{R2} (μ A) @ V _R =3.5V	V _{BR} (V) @ ել (Note 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	Max	Min	Max	mA	Max	Max	Max	Max	Тур
HPESD5V0V1BL	5.0	0.5	0.3	5.6	8.0	1.0	8.5	12	5.5	66	10

Other voltage available upon request.

- 3. Surge current waveform per Figure 3.

Typical Characteristics

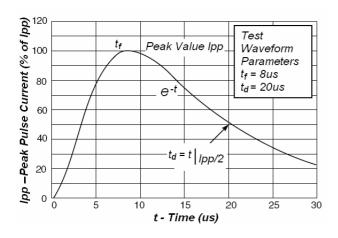


Fig1. Pulse Waveform

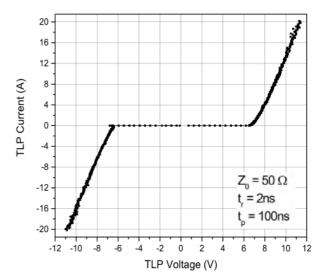
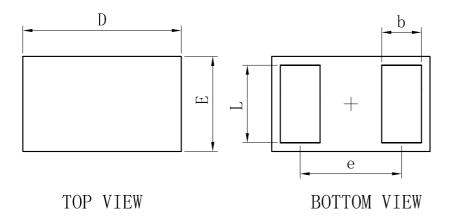


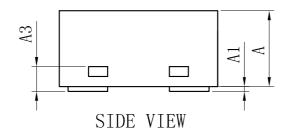
Fig2.TLP Measurement



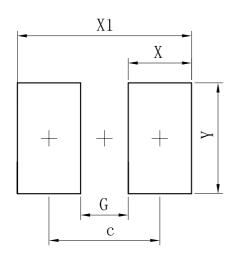
Outline And Dimensions



DFN1006-2L					
Dim	Min	Тур	Max		
D	0. 95	1.00	1.05		
Е	0. 55	0.60	0.65		
е	_	0.64	_		
L	0.44	0.49	0.54		
b	0.20	0. 25	0.30		
A	0.43	0.48	0. 53		
A1	0	-	0.05		
A3	0. 127REF.				
All Dimensions in mm					



Soledering Footprint



Dimensions	(mm)
С	0.70
G	0.30
X	0.40
X1	1. 10
Y	0.70

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