

Discription

The HPESDNC2FD5VBL 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	2
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.

Orderingin formation

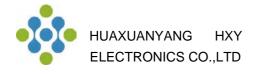
Product ID	Pack	Qty(PCS)
HPESDNC2FD5VBL	DFN1006-2L	10000

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _p = 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
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge	±25	КV
	contact discharge	±20	1.1.1



Circuit Diagram



Electrical Characteristics

	V _{RWM} (V)	I _{R1} (μΑ) @ V _{RWM}	I _{R2} (μΑ) @ V _R =3.5V	V _{BR} (V (Note		ե	V _C (V) @ lpp = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	Ipp(A) (Note 3)	Р_{РК}(W) (Note 3)	C (pF)
Device	Max	Max	Max	Min	Max	mA	Мах	Max	Max	Max	Тур
HPESDNC2FD5VBL	5.0	0.5	0.3	5.6	8.0	1.0	8.5	12	5.5	66	10

Other voltage available upon request.

2. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 $^\circ C$

3. Surge current waveform per Figure 3.

Typical Characteristics

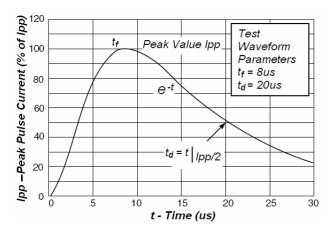
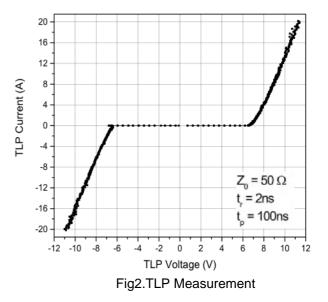
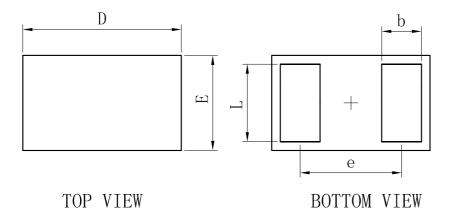


Fig1. Pulse Waveform

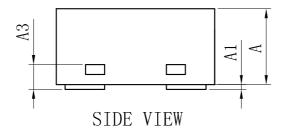




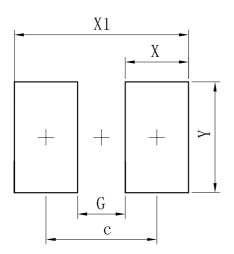
Outline And Dimensions



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		
А	0.43	0.48	0.53		
A1	0 – 0.05				
A3	13 0. 127REF.				
All Dimensions in mm					



Soledering Footprint



Dimensions	(mm)
С	0.70
G	0.30
Х	0.40
X1	1.10
Y	0.70



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