

Discription

The HSC1205-01ETG 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.	2
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)
HSC1205-01ETG	DFN1006-2L	10000

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units		
P _{PP}	Peak Pulse Power (t _p = 8/20µs)	66	W		
ΤL	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	
		lischarge	±25	КV	
	contact d	ischarge	±20		



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)	I _{PF} (A) (Note 3)	Р_{РК}(W) (Note 3)	C (pF)
Device	Max	Max	Мах	Min	Мах	mA	Мах	Max	Max	Max	Тур
HSC1205-01ETG	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

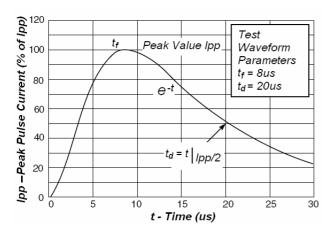
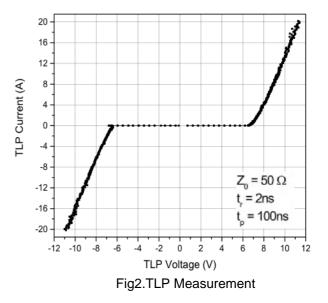
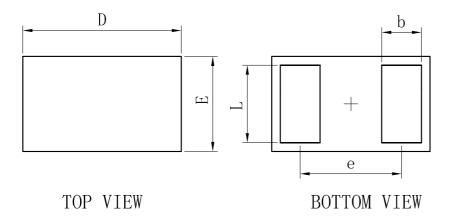


Fig1. Pulse Waveform

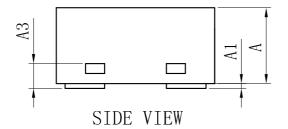




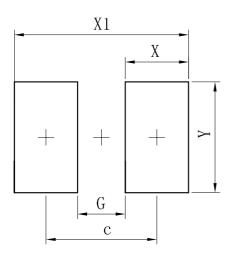
Outline And Dimensions



DFN1006-2L					
Dim	Min	Тур	Max		
D	0.95	1.00	1.05		
Е	0.55	0.60	0.65		
е	-	-			
L	2 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	A3 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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