

Discription

The HESD5411N 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.

Features

- ★ Small Body Outline Dimensions
- ★ Low Body Height
- ★ Peak Power up to 80 Watts @ 8 x 20 µs Pulse Low Leakage
- ★ Response Time is Typically < 1 ns
- ★ IEC61000-4-2 Level 4 ESD Protection
- ★ IEC61000-4-4 Level 4 EFT Protection
- ★ We declare that the material of product compliance with RoHS requirements.

Orderingin formation







Circuit Diagram

Product ID	Pack	Qty(PCS)	
HESD5411N	DFN1006-2L	10000	

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units	
P _{PP}	Peak Pulse Power (t _p = 8/20µs)	130	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 disch contact disch	•	±20 ±15	ΚV
	IEC61000-4-4 (EFT)		40	А



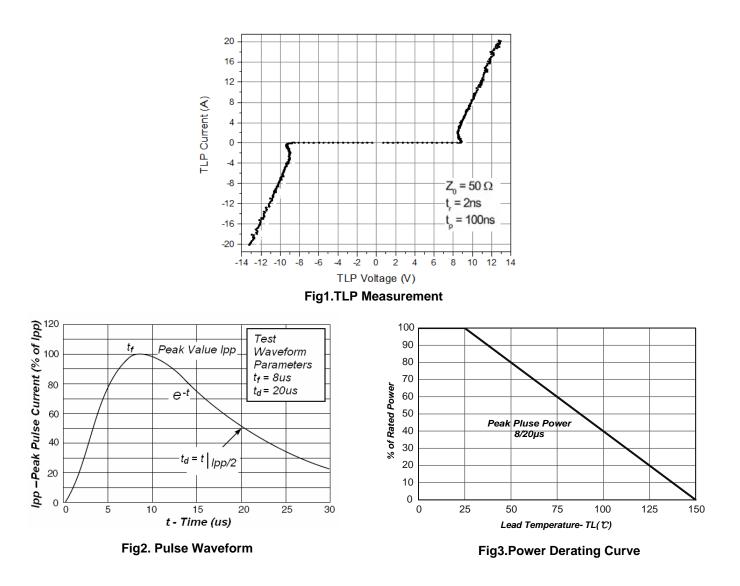
Device	V _{RWM} (V)	I _R (uA) @ V _{RWM}	-		Ι _Τ	V _C (V) @ I _{PP} =3 A*	V _C (V) @ Max I _{PP} *	І _{РР} (А)*	Р _{РК} (W)*	C (pF)
	Max	Max	Min	Max	mA	Тур	Max	Max	Мах	Тур
HESD5411N	7.0	1.0	7.2	9	1.0	13	17	9	153	8

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.VF = 0.9V at IF = 10mA

*Surge current waveform per Figure 2.

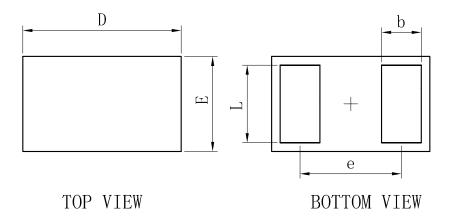
1. V_{BR} is measured with a pluse test current I_T at an ambient temperature of 25° C.

Typical Characteristics

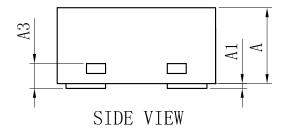




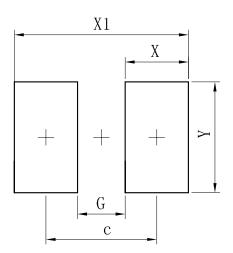
Outline And Dimensions



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	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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