

Discription

The HPESDNC2FD3V3BA 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.

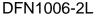
It gives designer the flexibility to protect one bi-directional line in applications where arrays are not practical.

Features

- ★ Small Body Outline Dimensions
- ★ Low Body Height
- ★ Peak Power up to 105 Watts @ 8 x 20 µ s Pulse
- ★ Low Leakage current
- ★ Response Time is Typically < 1 ns
- ★ ESD Rating of Class 3 per Human Body Model

Orderingin formation







Circuit Diagram

Product ID	Pack	Qty(PCS)
HPESDNC2FD3V3BA	DFN1006-2L	10000

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	100	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	-55 to +150	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge		KV
	IEC61000-4-4 (EFT)	40	А



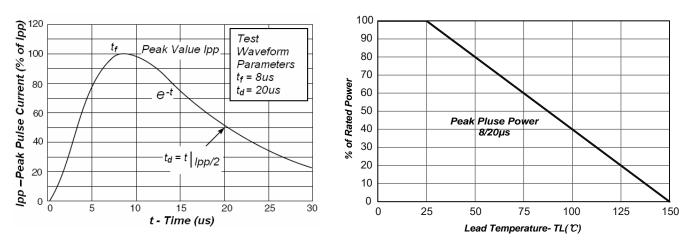
Electrical Characteristics

	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 1)		Ι _Τ	V _C (V) @ I _{PP} = 1 A (Note 2)	V _C (V) @MAX I _{PP} (Note 2)		P _{PK} (W) (Note 2)	C (pF)	R _{DYN} (Ω) @t _p =100 ns(TLP)
Device	Max	Max	Min	Max	mA	Мах	Max	Мах	Max	Тур.	Тур.
HPESDNC2FD3V3BA	3.3	0.05	5	6.5	1.0	7	11	9	100	15	0.2

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

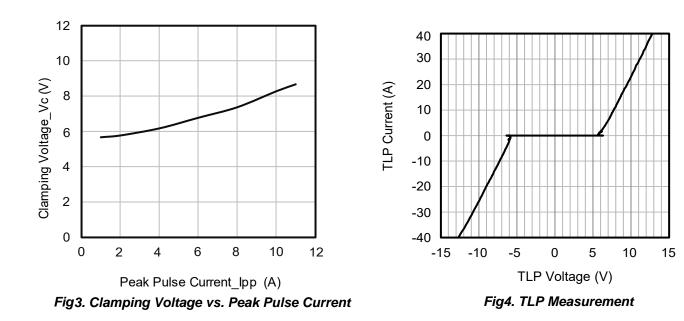
2. Surge current waveform per Figure 1.

Typical Characteristics



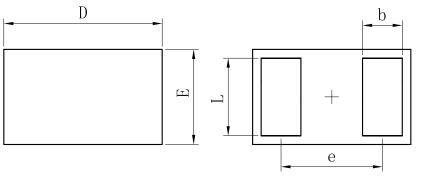








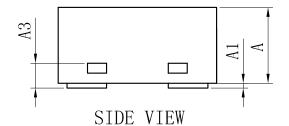
OUTLINE AND DIMENSIONS



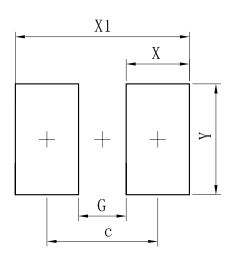
DFN1006-2L					
Dim	Min	Тур	Max		
D	0.95	1.00	1.05		
Е	0.55	0.60	0.65		
е	_	0.64	_		
L	0.44	0.49	0.54		
b	0.20	0.25	0.30		
А	0.43	0.48	0.53		
A1	0		0.05		
A3	0.127REF.				
All Dimensions in mm					



BOTTOM VIEW



SOLDERING FOOTPRINT



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



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