

### Discription

The HVCUT07B1-HD1-G4-08 protects sensitive semiconductor	
components from damage or upset due to electrostatic	2
discharge (ESD) and other voltage induced transient events.	
Excellent clamping capability, low leakage, low capacitance,	HXY
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

#### 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**



DFN1006-2L



**Circuit Diagram** 

Product ID	Pack	Qty(PCS)
HVCUT07B1-HD1-G4-08	DFN1006-2L	10000

## Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units	
P <sub>PP</sub>	Peak Pulse Power (t <sub>p</sub> = 8/20µs)	130	W	
TL	Maximum lead temperature for soldering during 10s	260	°C	
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C	
T <sub>op</sub>	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



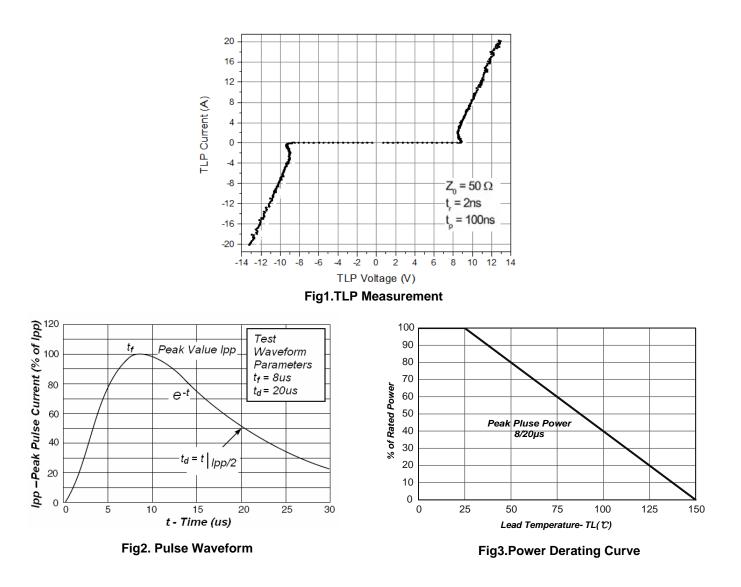
Device	V <sub>RWM</sub> (V)	I <sub>R</sub> (uA) @ V <sub>RWM</sub>	V <sub>BR</sub> (V (Not	-	Ι <sub>Τ</sub>	V <sub>c</sub> (V) @ I <sub>PP</sub> =3 A*	V <sub>C</sub> (V) @ Max I <sub>PP</sub> *	І <sub>РР</sub> (А)*	Р <sub>РК</sub> (W)*	C (pF)
	Мах	Max	Min	Max	mA	Тур	Max	Max	Max	Тур
HVCUT07B1-HD1-G4-08	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.

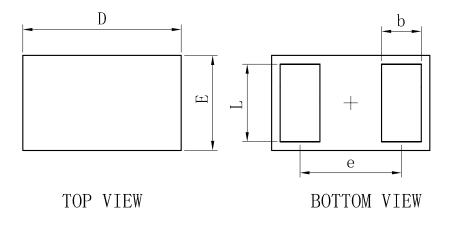
1.  $V_{BR}$  is measured with a pluse test current  $I_T$  at an ambient temperature of  $25^{\circ}$ C.

## **Typical Characteristics**

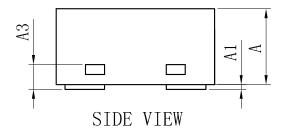




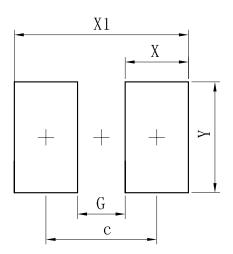
## **Outline And Dimensions**



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	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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