

Discription

The HVBUS03N1-DD1HG3-08 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 unidirectional	
line in applications where arrays are not practical.	DFN1006-2L

Features

- ★ Transient protection for high-speed data lines IEC 61000-4-2(ESD) ±8kV (Contact) ±15kV (Air) IEC 61000-4-4(EFT) 40A (5/50 ns)
- Peak power dissipation: 100W (8/20us) ★
- Working voltages : 3.3V ★
- ★ Ultra-small package (1.0mmx0.6mmx0.5mm)
- ★ Protects one data, control line
- ★ Low clamping voltage
- Low leakage current ★

Orderingin formation					
Product ID	Pack	Qty(PCS)			
HVBUS03N1-DD1HG3-08	DFN1006-2L	10000			

Absolute Ratings(Tamb = 25°C)

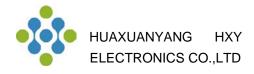
Symbol	bol Parameter		Value	Units
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	100	W	
TL	Maximum lead temperature for soldering during 10s		260	°C
T _{stg}	Storage Temperature Range		-55 to +150	°C
T _{op}	Operating Temperature Range		-55 to +150	°C
Tj	Maximum junction temperature		150	°C
	IEC61000-4-2 (ESD) air disch contact disch		土15 土8	KV
	IEC61000-4-4 (EFT)		40	А







Circuit Diagram

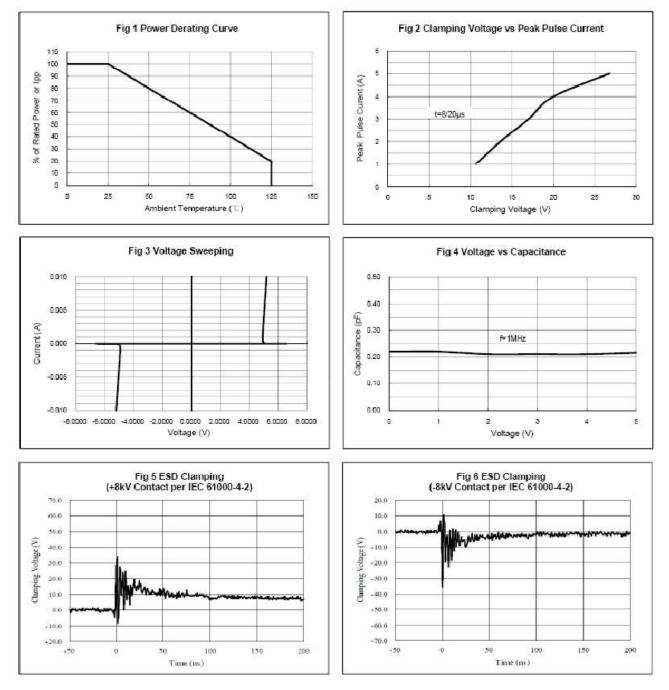


Electrical Characteristics Ratings at 25°C

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				3.3	V
Vbr	Reverse Breakdown Voltage	l⊤ = 1mA	4.2			V
IR	Reverse Leakage Current	$V_{RWM} = 3.3V$			100	nA
Ve	Vc Clamping Voltage	$I_{RWM} = 1A, t_{P} = 8/20 \mu s$			12	V
vc		$I_{RWM} = 4A, t_{P} = 8/20 \mu s$			25	V
CJ	Junction Capacitance	$V_R = 0V, f = 1MHz$		0.30	0.45	pF

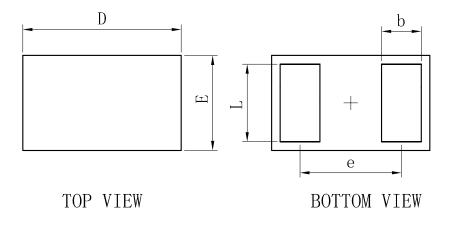


Typical Characteristics

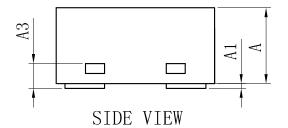




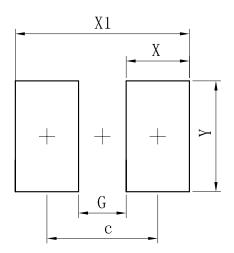
Outline And Dimensions



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	0.53		
A1	0 - 0.08			
A3	0.127REF.			
All Dimensions in mm				



Soledering Footprint



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



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