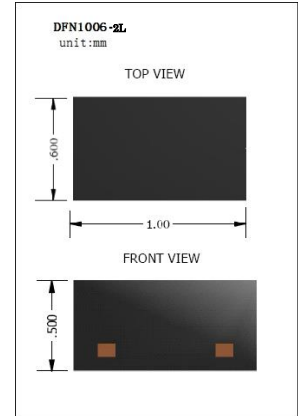
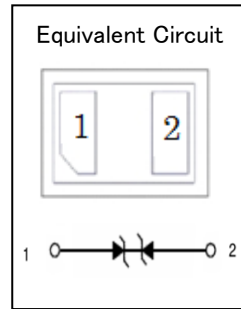


DATA SHEET

ESDB24AD1

- ◇Bi-Directional Transient Voltage Suppressor
- ◇Low Leakage
- ◇Protects one data or power line
- ◇ROHS Compliant
- ◇Operating voltage: 24V
- ◇Matte Tin Lead finish (Pb-Free)

Device Marking Code	
ESDB24AD1	DH



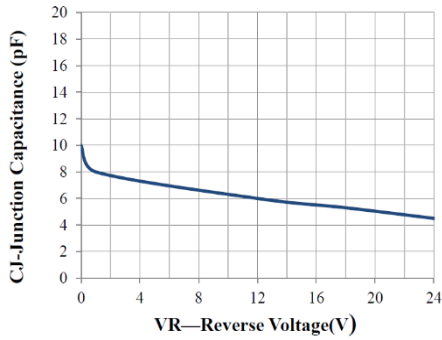
Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _{ESD-Air}	ESD Per IEC61000-4-2 Air	±17	kV
V _{ESD-Contact}	ESD Per IEC61000-4-2 Contact	±12	kV
P _{pk}	Peak Pulse Power (8/20 μs)	150	W
T _J	Operating Temperature	-55 to +125	°C
T _{STG}	Storage Temperature	-55 to +150	°C

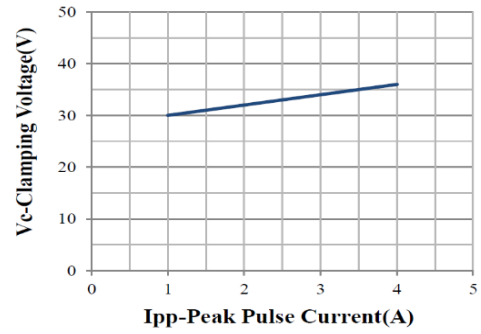
Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V _{RWM}	Reverse Working Peak Voltage				24	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	26	28	33	V
I _R	Reverse Leakage Current	V _{RWM} = 24V			0.5	μA
V _{C1}	Clamping Voltage 1	I _{PP} = 1A (8x20 μs pulse)		35		V
V _{C2}	Clamping Voltage 2	I _{PP} = 4A (8x20 μs pulse)		38	45	V
C _J	Junction Capacitance	V _R = 0V, f = 1MHz		10	15	pF

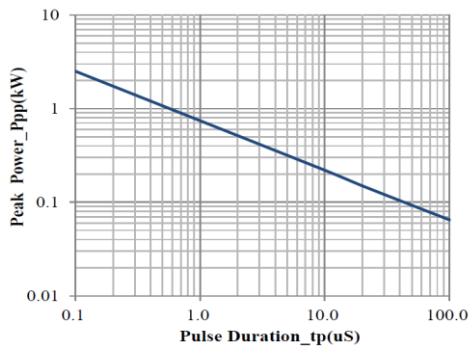
Typical Performance Characteristics (TA=25° C unless otherwise Specified)



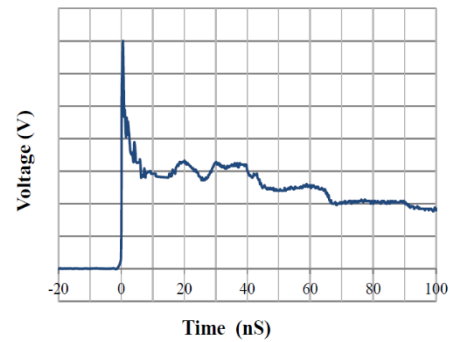
Junction Capacitance vs. Reverse Voltage



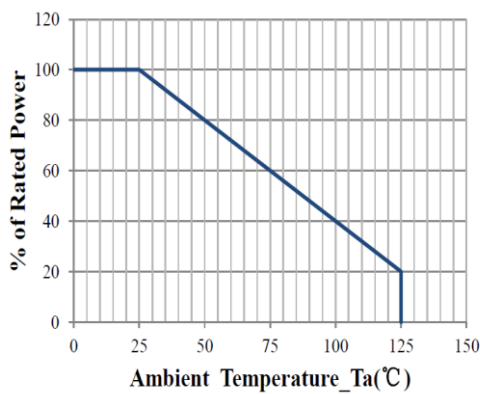
Clamping Voltage vs. Peak Pulse Current



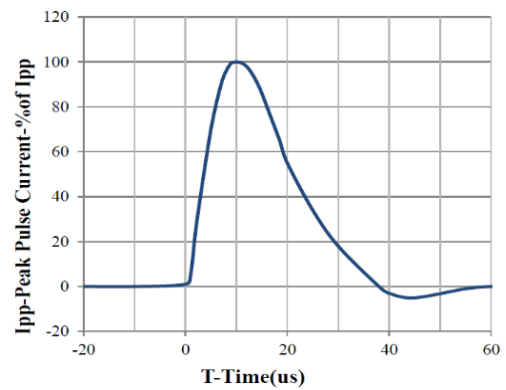
Peak Pulse Power vs. Pulse Time



IEC61000-4-2 Pulse Waveform



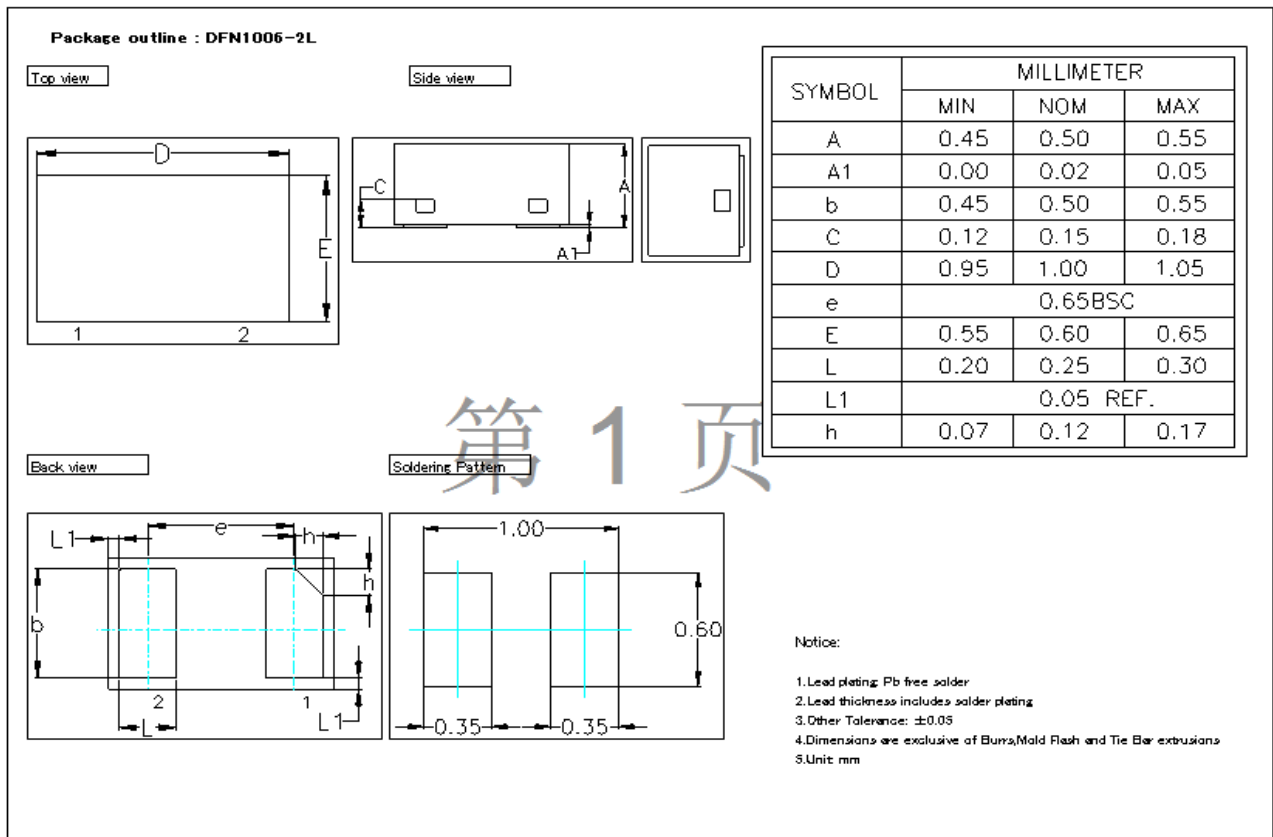
Power Derating Curve



8 X 20us Pulse Waveform

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESDB24AD1	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions

NOTICE

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