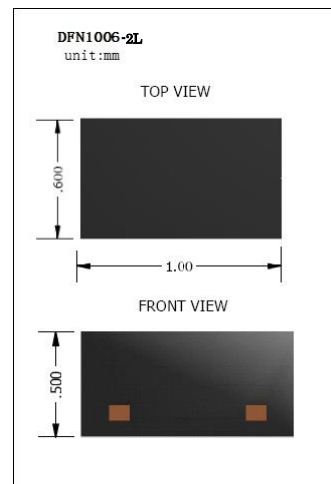
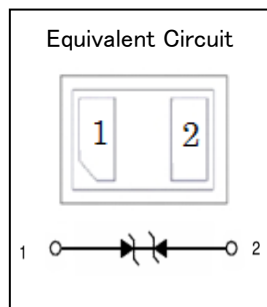


DATA SHEET

ESDB12ALD1

- ◇Bi-Directional Transient Voltage Suppressor
- ◇Low Leakage
- ◇Response Time is Typically < 1 ns
- ◇IEC61000-4-2 Level 4 ESD Protection
- ◇ROHS Compliant
- ◇UL-94 V-0 / Green EMC
- ◇Matte Tin Lead finish (Pb-Free)

Device Marking Code	
ESDB12ALD1	L12



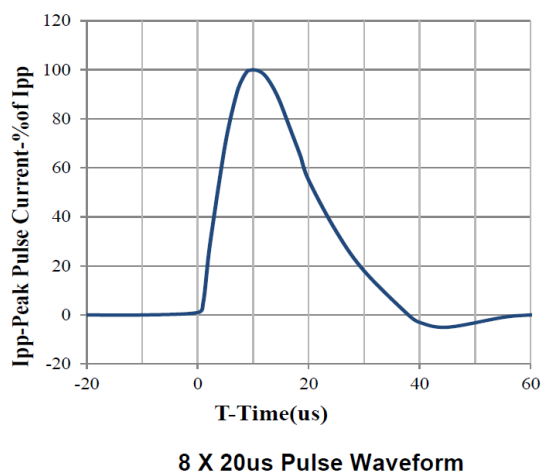
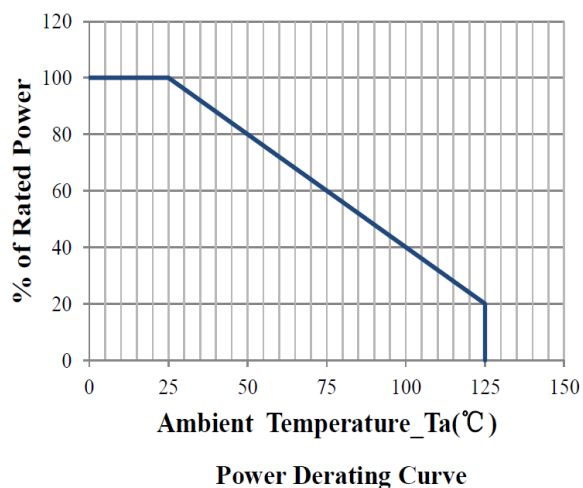
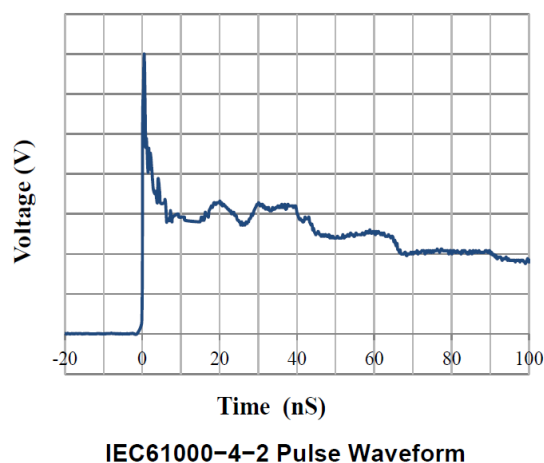
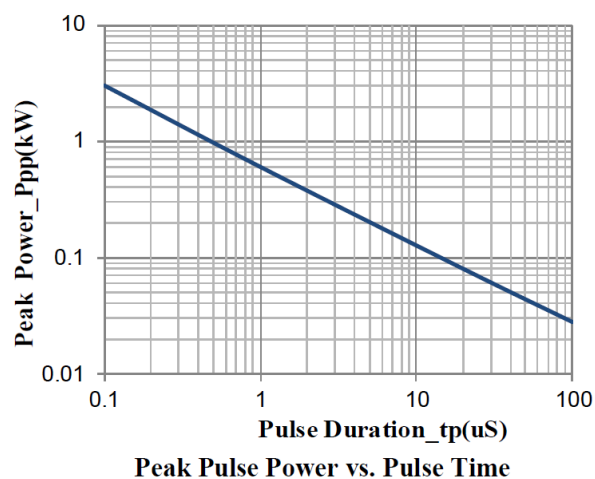
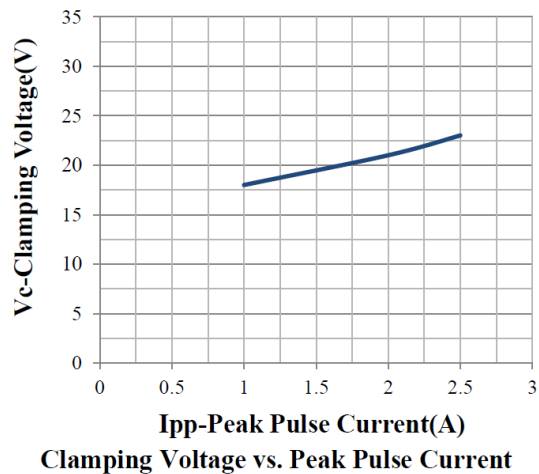
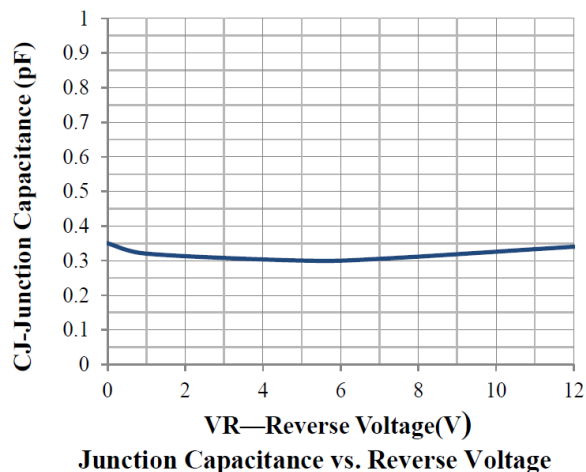
Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _{ESD-Air}	ESD Voltage IEC61000-4-2 Air	±15	kV
V _{ESD-Contact}	ESD Voltage IEC61000-4-2 Contact	±8	kV
P _{PK}	Peak Pulse Power (8/20μs)	70	W
T _J	Junction Temperature	-55 to 125	°C
T _{STG}	Storage Temperature	-55 to 150	°C
I _{PP}	Peak Pulse Current (8/20μs)	2.5	A

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

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V _{RWM}	Reverse Working Peak Voltage				12	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	13.5	14.5	16	V
I _R	Reverse Current	V _{RWM} = 12V			0.2	μA
V _C	Clamping Voltage	I _{pp} = 1A (8 x 20μs pulse)		18	20	V
V _C	Clamping Voltage	I _{pp} = 2.5A (8 x 20μs pulse)		23	30	V
C _j	Junction Capacitance	V _R = 0V, f = 1MHz		0.35	0.5	pF

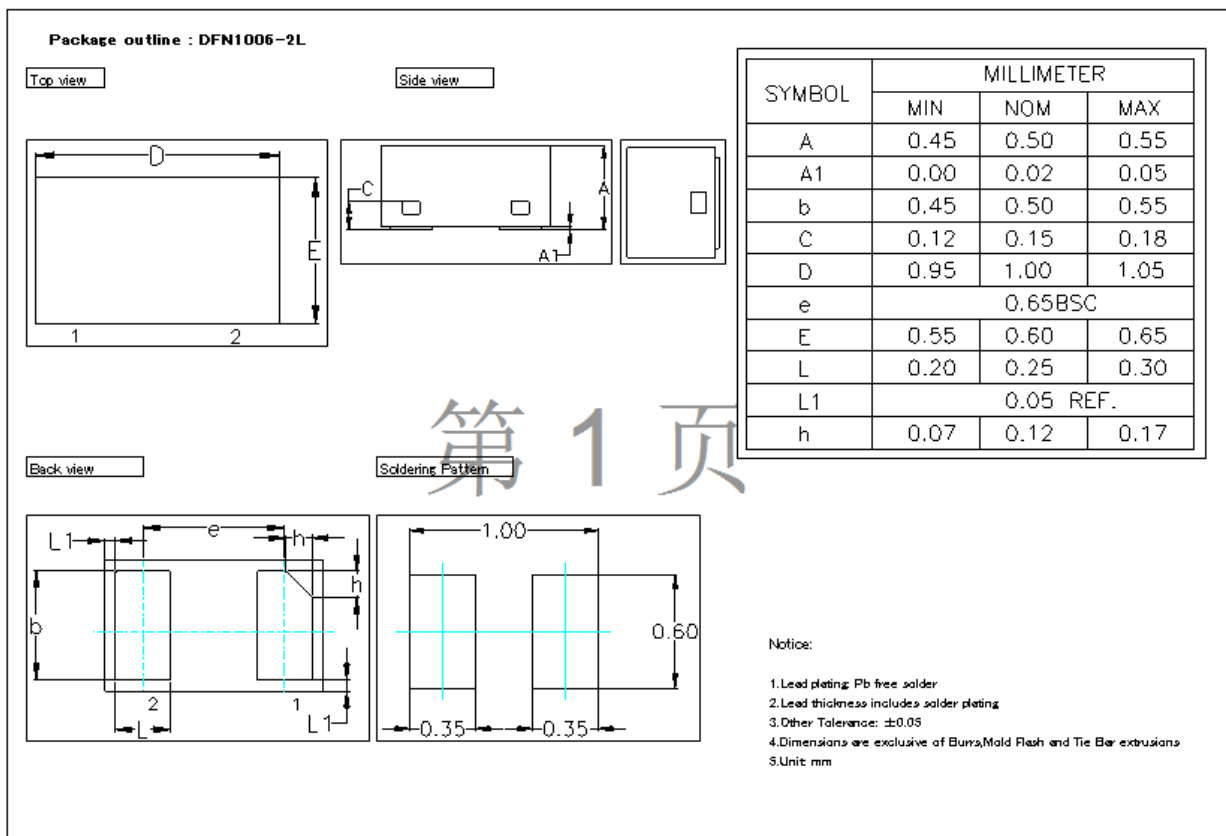
Typical Characteristics



Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESDB12ALD1	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions



NOTICE

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