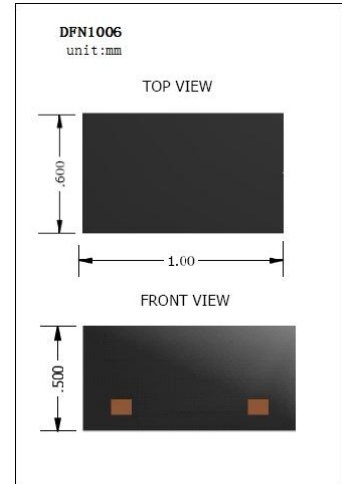
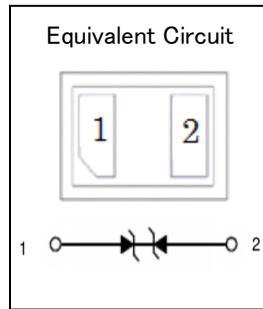


DATA SHEET(Preliminary)

ESDB7.0AD1

- ◇ Bi-Directional Transient Voltage Suppressor
- ◇ Low Capacitance and 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	
ESDB7.0AD1	R2



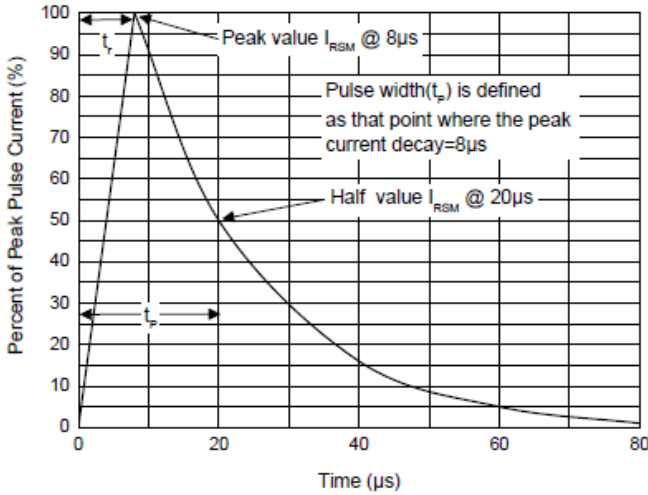
Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _{ESD-Air}	ESD Voltage IEC61000-4-2 Air	±30	kV
V _{ESD-Contact}	ESD Voltage IEC61000-4-2 Contact	±30	kV
I _{pp}	IEC61000-4-5(Surge) @8/20us	5	A
P _{pp}	Peak pulse power(tp=8/20us)	80	W
T _J	Junction Temperature	-55 to 125	°C
T _{STG}	Storage Temperature	-55 to 150	°C
TL	Lead Solder Temperature - Maximum (10 Second Duration)	260	°C

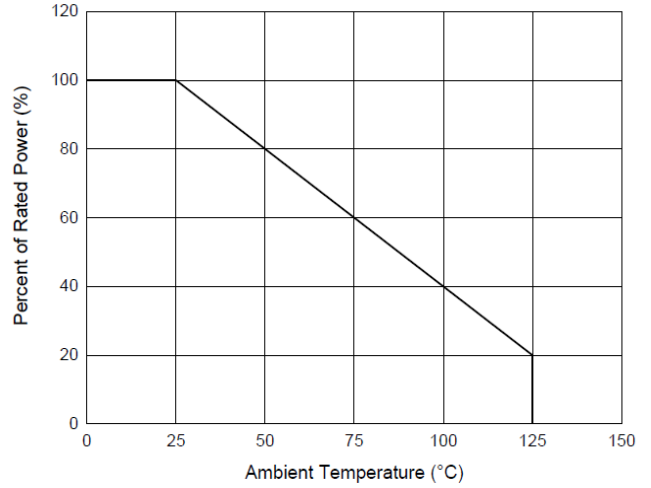
Electrical Characteristics (Ta = 25 °C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V _{RWM}	Reverse Working Peak Voltage				7.0	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	7.5			V
I _{R1}	Reverse Current	V _{RWM} = 7V			1	μA
V _c	Clamping Voltage	I _{pp} = 1A			9	V
V _c	Clamping Voltage	I _{pp} = 5A			16	V
C	Capacitance	V _R = 0V, f = 1MHz		15		pF

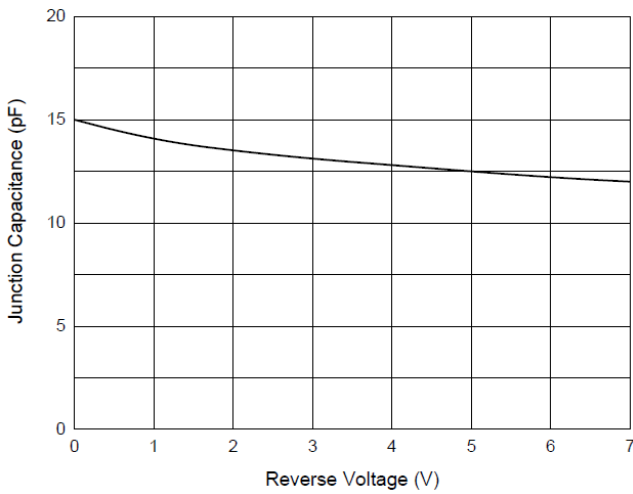
Typical Characteristics



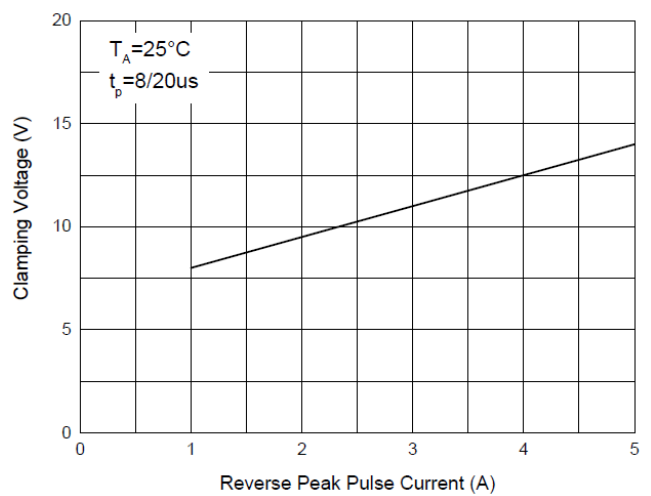
8 X 20 μs Pulse Waveform



Pulse Derating Curve



Capacitance Characteristics

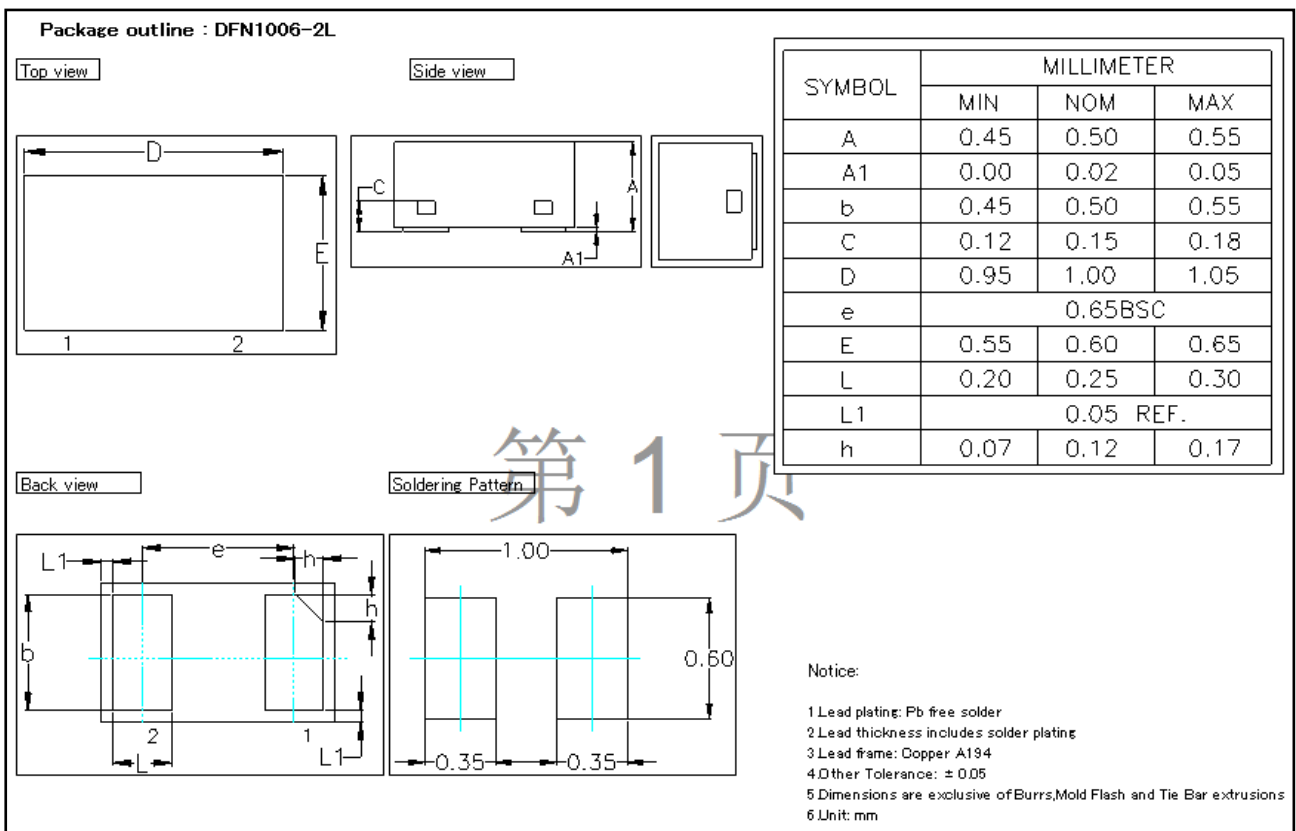


Clamping Voltage Characteristics

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESDB7.0AD1	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions



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