



Transient Voltage Suppressors for ESD Protection

Features

- ◆ IEC 61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact)
- ◆ IEC 61000-4-4 (EFT) 40A (5/50ns)
- ◆ Protects one I/O line (bidirectional)
- ◆ Working voltage: 15V
- ◆ Low leakage current
- ◆ ROHS compliant

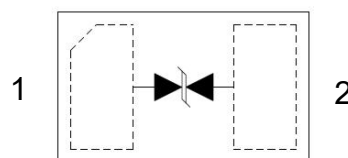
DFN1006-2L



Applications

- ◆ Cell Phone Handsets and Accessories
- ◆ Microprocessor based equipment
- ◆ Personal Digital Assistants (PDA's)
- ◆ Notebooks, Desktops, and Servers
- ◆ Portable Instrumentation
- ◆ Networking and Telecom
- ◆ Serial and Parallel Ports
- ◆ Peripherals

Pin Configuration



(Top View)

Mechanical Characteristics

- ◆ DFN1006-2L Package
- ◆ Flammability Rating: UL 94V-0
- ◆ Packaging: Tape and Reel
- ◆ Quantity Per Reel : 10,000pcs
- ◆ Reel Size : 7 inch

Absolute Maximum Ratings

Symbol	Parameter	Value	Units
V_{ESD}	ESD per IEC 61000-4-2 (Air)	± 30	kV
	ESD per IEC 61000-4-2 (Contact)	± 30	
T_{OP}	Operating Temperature	-55 ~ +150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 ~ +150	$^{\circ}\text{C}$
T_{L}	Lead Soldering Temperature	260 (10 sec.)	$^{\circ}\text{C}$

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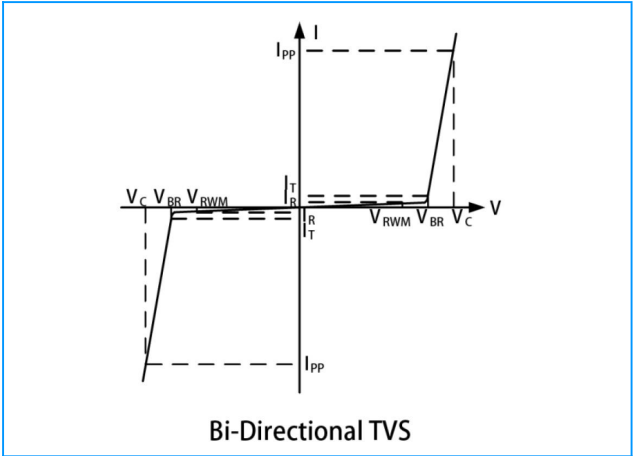
SE15N6T01GK

Electrical Characteristics (T_A = 25 °C, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse maximum working voltage	V _{RWM}	--	--	--	15	V
Reverse breakdown voltage	V _{BR}	I _T = 1mA	17.0	--	19.5	V
Reverse leakage current	I _R	V _{RWM} = 15V	--	--	0.1	μA
Clamping Voltage	V _C	I _{PP} = 1A , t _p = 8/20μs	--	22	--	V
Clamping Voltage	V _C	I _{PP} = 8A , t _p = 8/20μs	--	31	--	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz	--	20	--	pF

I-V Curve Characteristics

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T



Typical Characteristic Curves (T_A = 25 °C, unless otherwise noted)

Fig1. Power Derating Curve

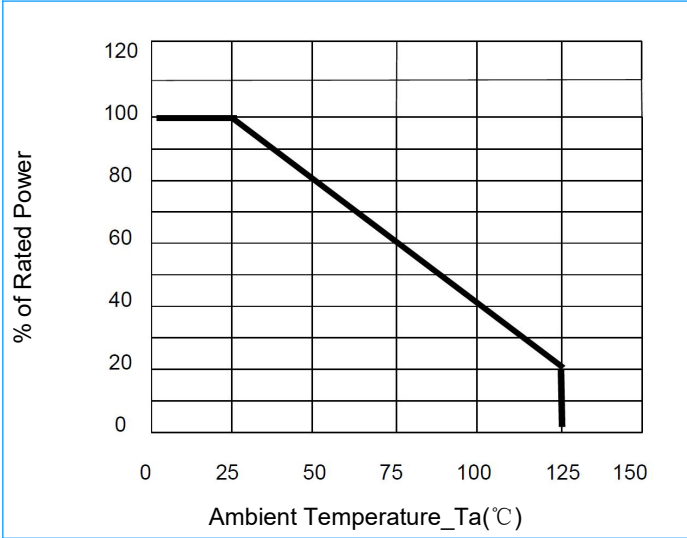
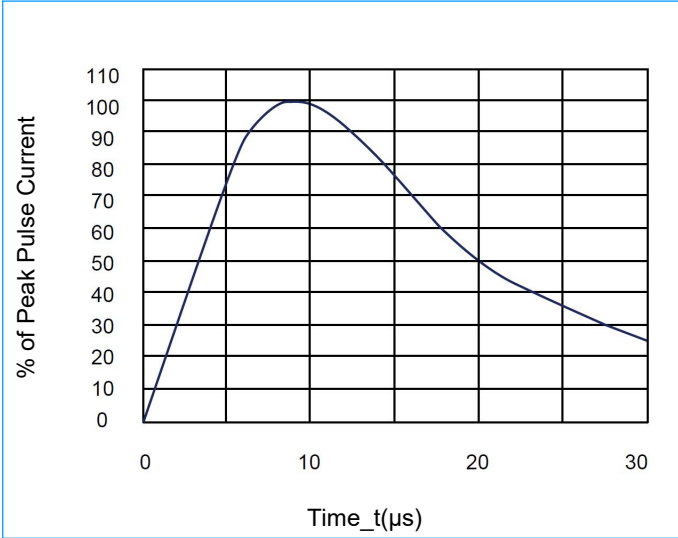


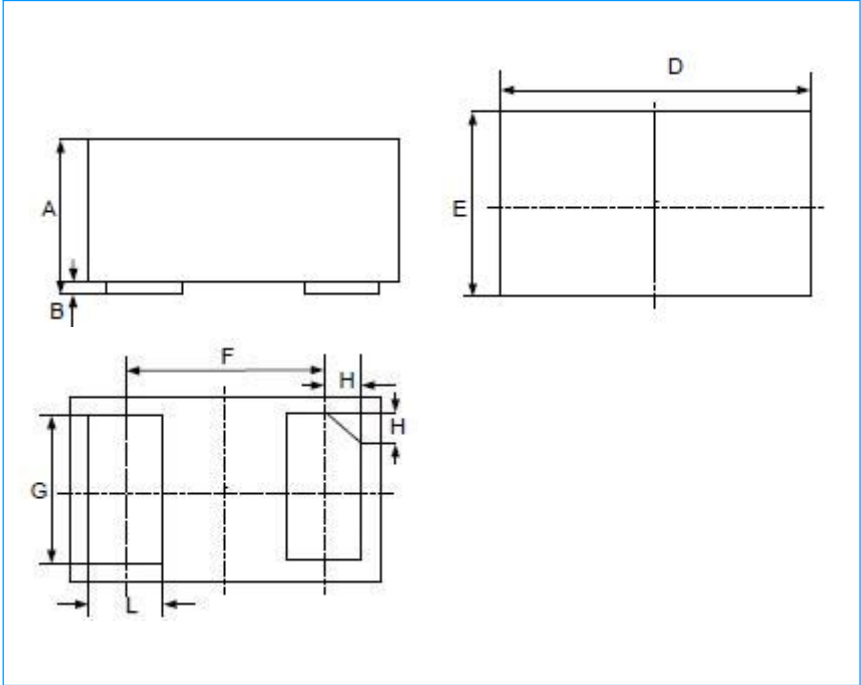
Fig2. 8/20 μ s Pulse Waveform



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DFN1006-2L Package Outline & Dimensions (Unit: mm)



Symbol	Millimeters	
	Min.	Max.
A	0.34	0.55
B	0.00	0.05
D	0.95	1.08
E	0.55	0.68
F	0.65 (Typ.)	
G	0.40	0.60
H	0.07	0.17
L	0.20	0.30