

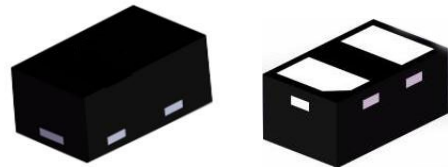
Transient Voltage Suppressors for ESD Protection

SE03N6R01GH

Features

- ◆ Reverse Working (Stand-off) Voltage: 3.3V
- ◆ Low Leakage Current
- ◆ Response Time is Typically < 1 ns
- ◆ Capacitance: 9pF (Typical)
- ◆ Low Clamping Voltage

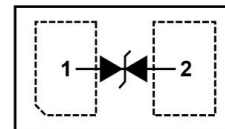
DFN1006-2L



Applications

- ◆ Portable Electronics
- ◆ Desktops, Servers and Notebooks
- ◆ Cellular Phones
- ◆ MP3 Ports
- ◆ Digital Camera Ports
- ◆ Subscriber Identity Module (SIM) Card

Pin Configuration



Mechanical Characteristics

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

Absolute Maximum Rating

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	-40 to +125	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

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

Symbol	Test Conditions	Min.	Typ.	Max.	Units
V _{RWM}	--	--	--	3.3	V
V _{BR}	I _T =1mA	3.5	--	5	V
I _R	V _{RWM} =3.3V, T = 25°C	--	--	0.5	μA
V _C	I _{PP} =1A, t _p =8/20μs	--	5	--	V
V _C	I _{PP} =8A, t _p =8/20μs	--	8	--	V
C _{ESD}	V _R =0V, f=1MHz	--	9	--	pF

Characteristic Curves

Fig. 1. Power Derating Curve

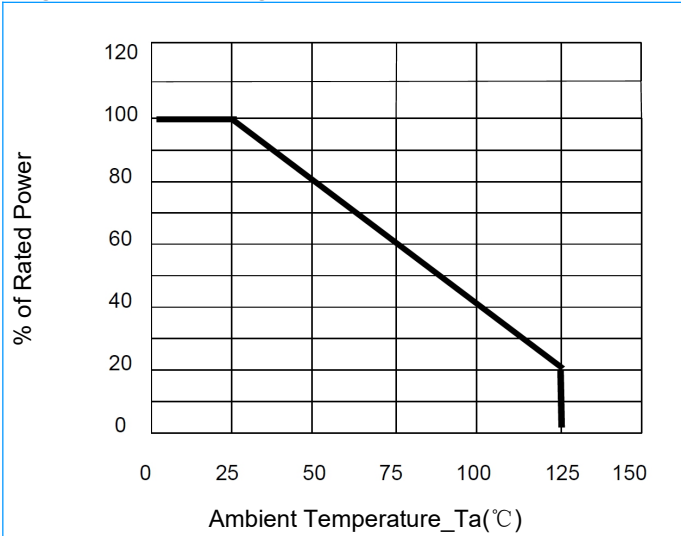
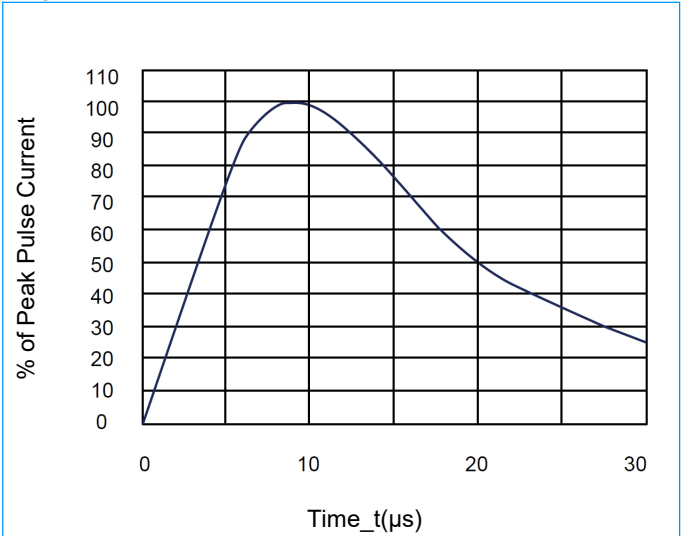


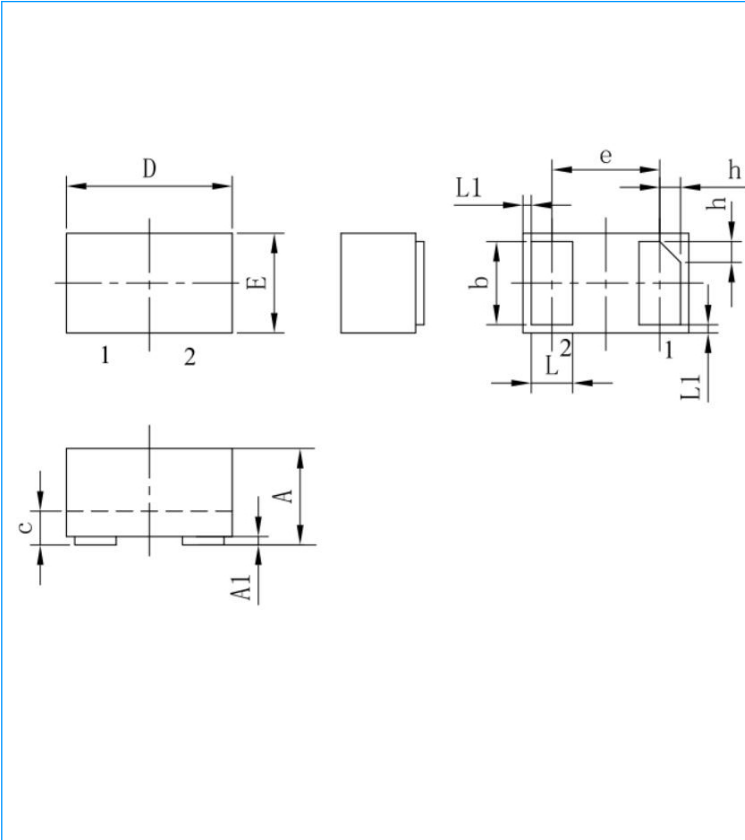
Fig. 2. 8/20μs Pulse Waveform



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DFN1006-2L Package Outline & Dimensions



Symbol	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
A	0.45	0.50	0.55	0.018	0.020	0.022
A1	0.00	0.02	0.05	0.000	0.001	0.002
b	0.45	0.50	0.55	0.018	0.020	0.022
c	0.12	0.15	0.18	0.005	0.006	0.007
D	0.95	1.00	1.05	0.037	0.039	0.041
e	0.65 BSC			0.026 BSC		
E	0.55	0.60	0.65	0.022	0.024	0.026
L	0.20	0.25	0.30	0.008	0.010	0.012
L1	0.05 REF			0.002 REF		
h	0.07	0.12	0.17	0.003	0.005	0.007

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