

### Features

- 60W (tp=8/20μs) Peak Pulse Power
- Bi-directional configurations
- Low clamping voltage
- Low leakage current
- Moisture sensitivity level: Level 1
- Solid-state silicon avalanche technology
- Meet IEC61000-4-2

Contact discharge ±30kV

Air discharge ±30kV



### Applications

- Video I/O ports protection
- Set Top Boxes
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

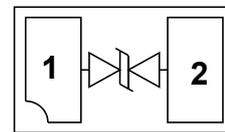
### Meachanical Data

- DFN1006 (SOD882)package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel(7 inch)

### Agency Approvals

Icon	Description
RoHS	Compliance with (EU)2015/863
HF	Compliance with IEC61249-2-21:2003
	Mean lead free

### Schematic & PIN Configuration



**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit
Peak Pulse Power( $t_p=8/20\mu s$ )	$P_{PK}$	60	W
Peak Pulse Current( $t_p=8/20\mu s$ )	$I_{PP}$	5.5	A
Lead Soldering Temperature	$T_L$	260(10seconds)	°C
Junction Temperature	$T_J$	-55 to +150	°C
Storage Temperature	$T_{STG}$	-55 to +150	°C

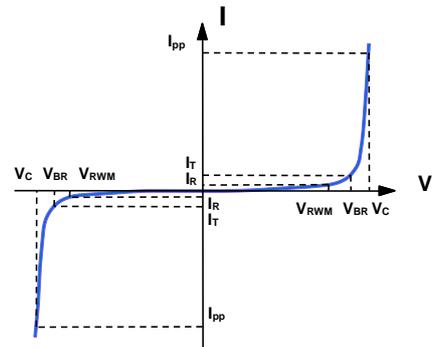
**Electrical Characteristics (TA=25°C unless otherwise specified)**

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	$V_{RWM}$				5	V
Breakdown Voltage	$V_{BR}$	$I_T = 1mA$	5.6			V
Reverse Leakage Current	$I_R$	$V_{RWM} = 4.3V$			0.1	μA
Clamping Voltage	$V_C$	$I_{PP} = 1A, t_p=8/20\mu s$			8.5	V
Clamping Voltage	$V_C$	$I_{PP} = 5.5A, t_p=8/20\mu s$			10	V
Junction Capacitance	$C_J$	$V_R = 0V, f = 1MHz$		15		pF

**I-V Curve Characteristics**

Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Reverse Stand-Off Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current

Note: 8/20μs pulse waveform.



Characteristics Curves(TA=25°C unless otherwise Specified)

Fig 1. 8/20µs Pulse Waveform

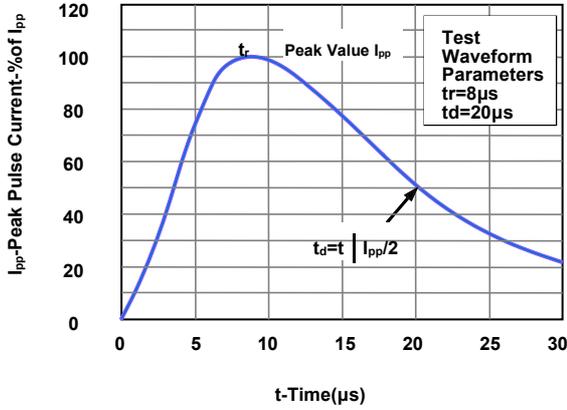
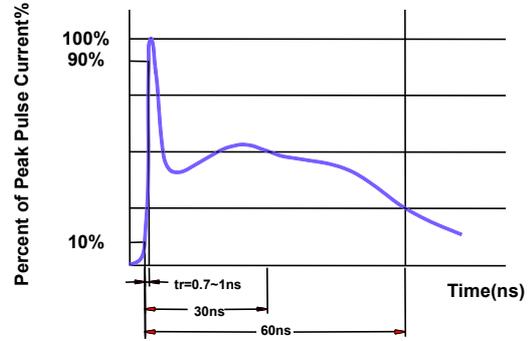
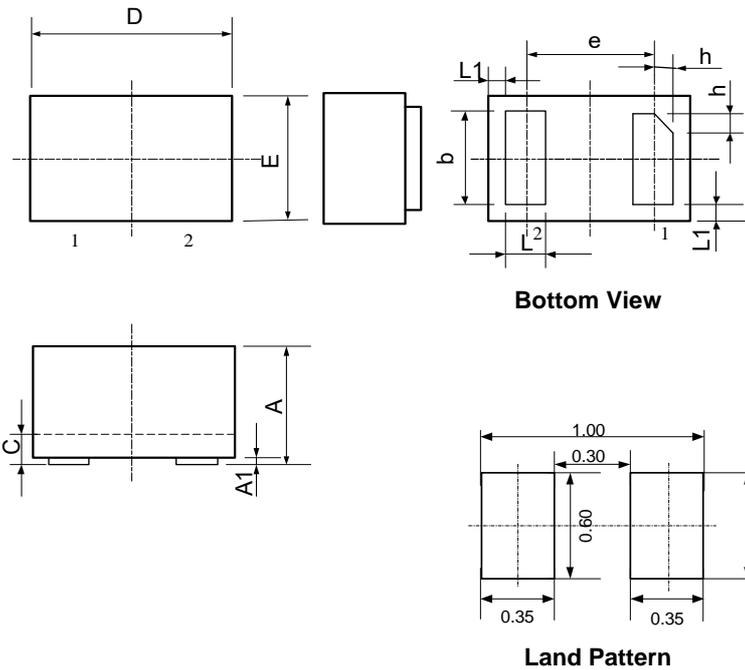


Fig 2. ESD Pulse Waveform (according to IEC61000-4-2)



DFN1006(SOD882) Package Outline

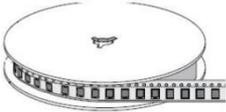
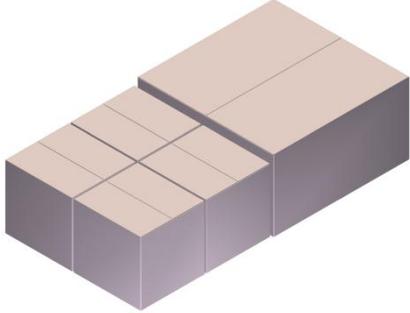


SYMBOL	MILIMETER		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05REF		
h	0.07	0.12	0.17

**Marking Information**



**Packaging Information**

	Reel	Inner Box	Carton
Size	φ178mm(7 inch)	215×205×205mm	435×435×230mm
Quantity	MPQ/MOQ: 1 reel=10000pcs	1 Inner box=10 reels=100,000pcs	1Carton=4 Inner boxes=400,000pcs
Photos			

- Notice: 1、 Each reel is placed in an aluminum foil bag and vacuum-packed separately.  
 2、 Above packaging photos make from 3D software for reference only, please refer to actual product as the standard.