

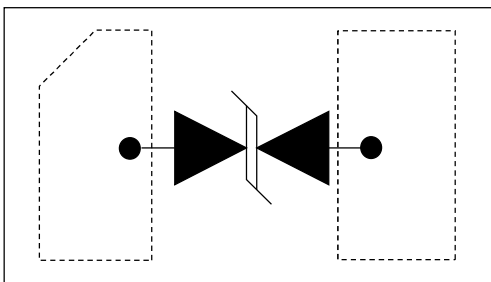
## Features

- 200Watts peak pulse power ( $t_p = 8/20\mu s$ )
- Bi-directional configurations
- Solid-state silicon-avalanche technology
- Capacitance: 8pF typical
- Low clamping voltage
- Low leakage current
- Complies with following standards:
  - IEC 61000-4-2 (ESD) immunity test
    - Air discharge:  $\pm 30KV$
    - Contact discharge:  $\pm 30KV$
  - IEC61000-4-4 (EFT) 40A (5/50ns)
  - IEC61000-4-5 (Lightning) 6A (8/20us)

## Applications

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation
- Digital Cameras
- Peripherals

## Schematic & PIN Configuration

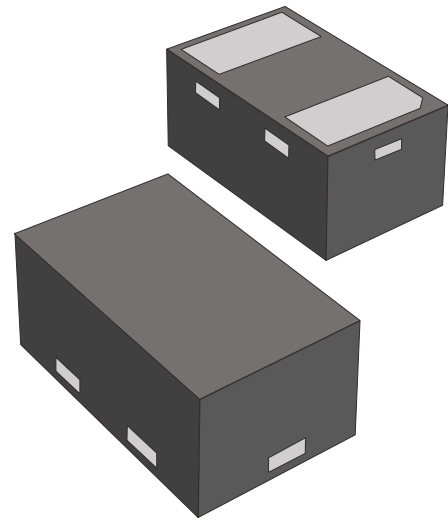


## Package

### DFN1006

SOD-882

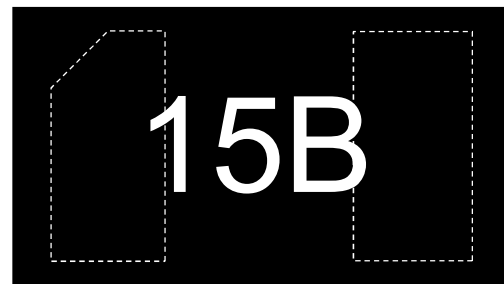
1mm×0.6mm×0.475mm



## Mechanical Data

- Package: DFN1006
- UL Flammability Classification Rating 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

## Marking





### Absolute Maximum Ratings

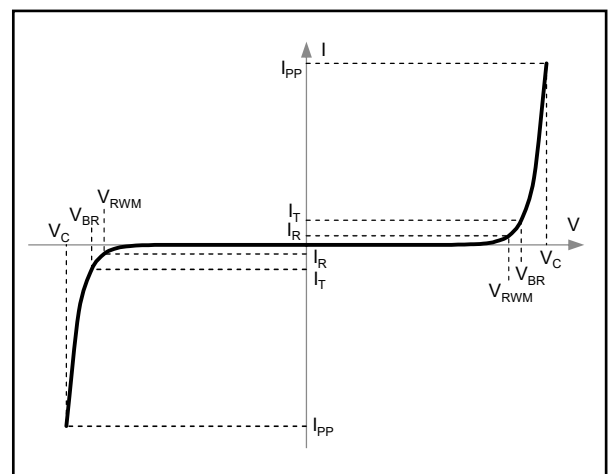
Parameter	Symbol	Value	Units
Reverse Working Voltage	$V_{RWM}$	15	V
Peak Pulse Power (tp=8/20µs)	$P_{PP}$	200	W
Peak Pulse Current (tp=8/20µs)	$I_{PP}$	6	A
ESD per IEC 61000-4-2 (Air)	$V_{ESD-Air}$	30	KV
ESD per IEC 61000-4-2 (Contact)	$V_{ESD-Contact}$	30	KV
Lead Soldering Temperature (10s)	$T_L$	260	°C
Operating Temperature Range	$T_J$	-55 to 125	°C
Storage Temperature Range	$T_{STG}$	-55 to 150	°C

### Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Breakdown Voltage	$V_{BR}$	$I_T = 1mA$	16		20	V
Reverse Leakage Current	$I_R$	$V_{RWM} = 15V$			0.5	uA
Clamping Voltage	$V_C$	$I_{PP} = 1A, tp=8/20µs$		18	24	V
		$I_{PP} = 6A, tp=8/20µs$		24	32	V
Junction Capacitance	$C_J$	$V_{DC} = 0V, f=1MHz$		8	10	pF

### Electrical Parameters

Symbol	Definition
$I_{PP}$	Peak Pulse Current
$V_C$	Clamping Voltage
$V_{RWM}$	Reverse Working Voltage
$I_R$	Reverse Leakage Current
$V_{BR}$	Breakdown Voltage
$I_T$	Test Current



Typical Characteristics

Fig.1 - Peak Pulse Power Rating

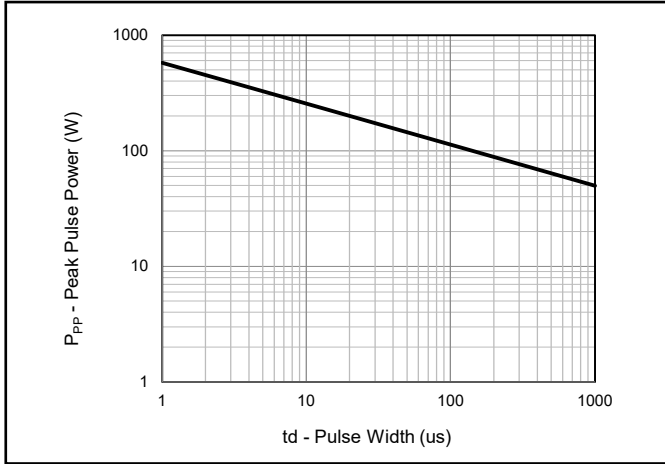


Fig.2 - Pulse Derating Curve

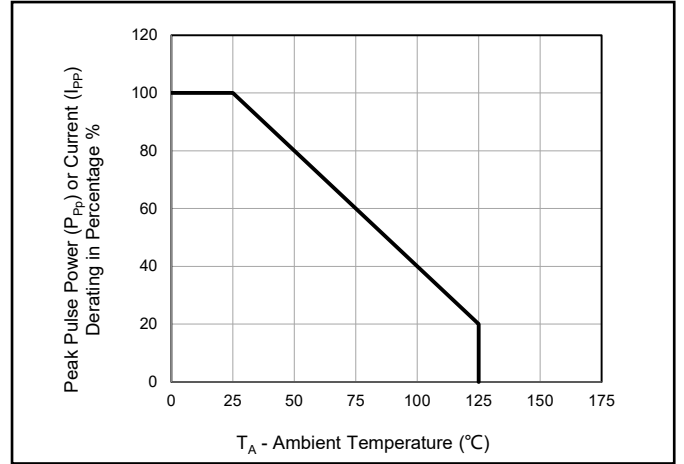


Fig.3 - 8/20us Pulse Waveform

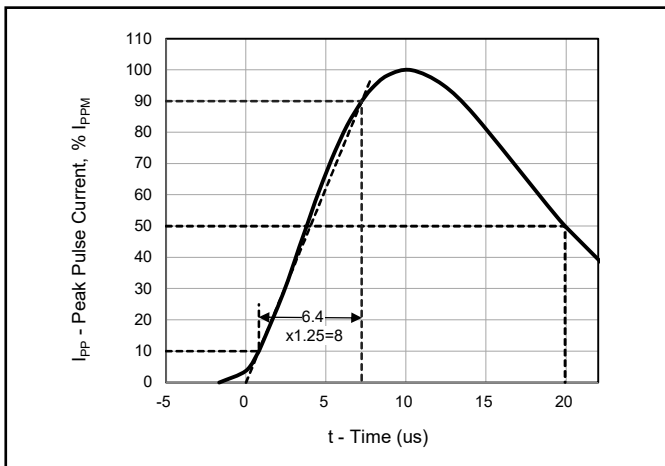


Fig.4 - Typical Clamping Voltage

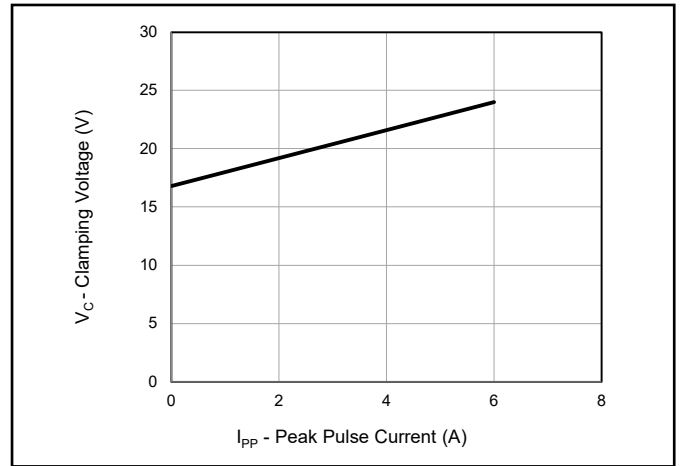


Fig.5 - ESD Pulse Waveform (IEC61000-4-2)

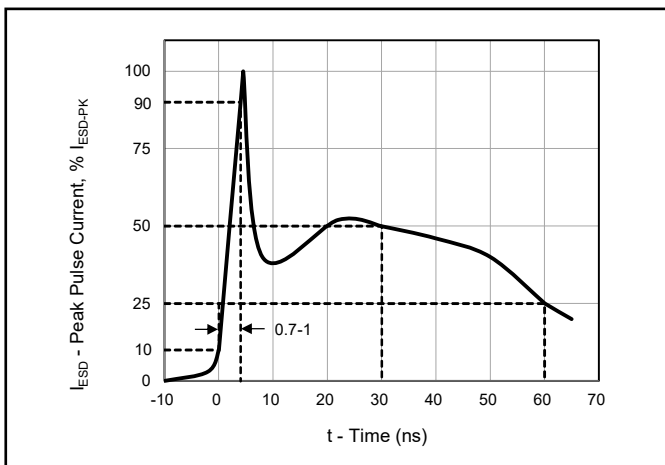
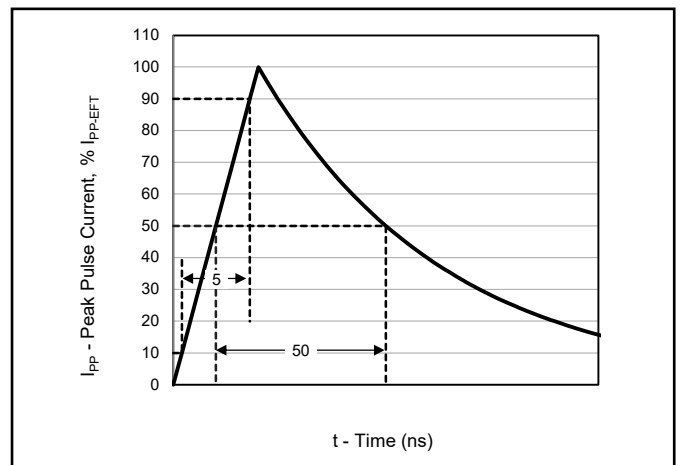
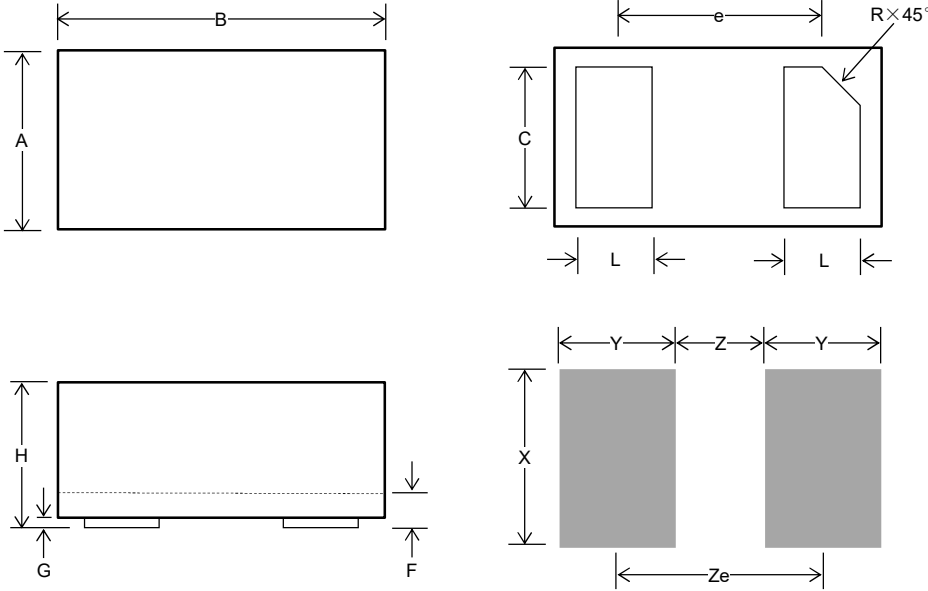


Fig.6 - 5/50ns EFT Waveform (IEC61000-4-4)



**Outline Drawing**



DFN1006			
SYMBOL	Millimeters		
	MIN	NOM	MAX
A	0.55	0.6	0.68
B	0.95	1	1.08
C	0.45	0.5	0.55
F	0.12		0.18
G	-	0	0.05
H	0.45	0.475	0.5
L	0.2	0.25	0.3
e		0.65	
X		0.6	
Y		0.5	
Z		0.3	
Ze		0.8	

**Ordering Information**

Order Code	Package	Base Quantity	Delivery Mode
LXT1006F15VB	DFN1006	10000 PCS/Reel	Tape and Reel