

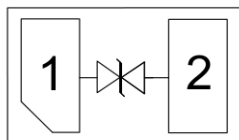
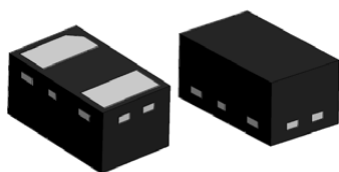
## Features

- 80W (8/20  $\mu$ s) Peak Pulse Power
- Low Capacitance ESD Protection
- DFN0603-2 Package
- RoHS Compliant
- Matte Tin Lead finish (Pb-Free)
- Protect One High Speed Data Line
- Meet IEC61000-4-2 Level 4:  
Contact Discharge > 20kV  
Air Discharge > 20kV

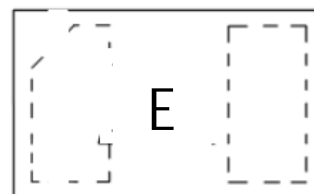
## Applications

- Communication System
- Portable Instrumentation
- Audio and Video Equipment
- Computers and Peripherals
- USB 1.1, USB 1.0 Ports

## Circuit Diagram



## Package Outline



N = Device Code

## Ordering information

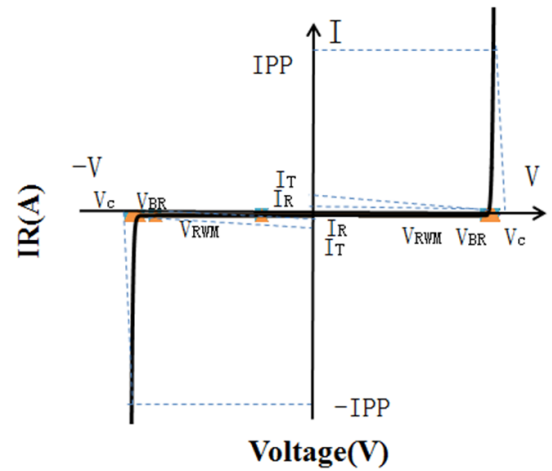
Device	Package	Reel Size	Qty / Reel
LXE0603F7VB	DFN0603-2	7 inch	10000

## Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	80	W
IPP	Peak Pulse Current	5	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	20	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	20	kV
T <sub>J</sub>	Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

**Portion Electronics Parameter**

Symbol	Parameter
$I_T$	Test Current
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_C$



**Electrical Characteristics (Ta = 25°C)**

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{RWM}$	Reverse Working Peak Voltage		7			V
$V_{BR}$	Reverse Breakdown Voltage	$I_T = 1mA$	8.5		14	V
$I_R$	Reverse Leakage Current	$V_{RWM} = 5V$			0.5	$\mu A$
$V_C$	Clamping Voltage	$I_{PP} = 1A (8/20\mu s)$			17	V
$V_C$	Clamping Voltage	$I_{PP} = 5A (8/20 \mu s)$			22	V
$C_J$	Capacitance	$V_R = 0V, f = 1MHz$		7		pF

**SURGE CURRENT WAVEFORM**

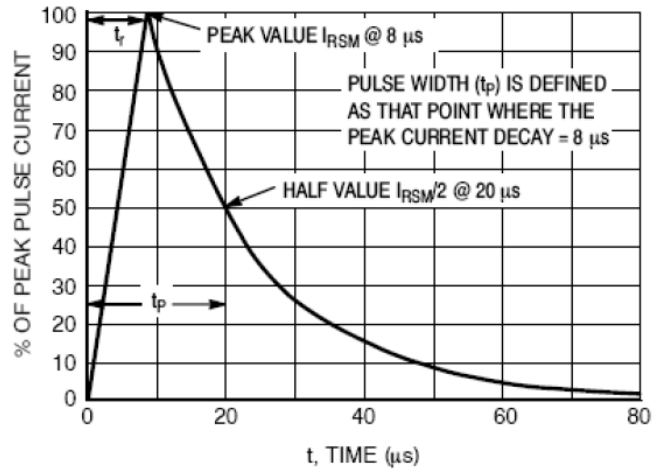
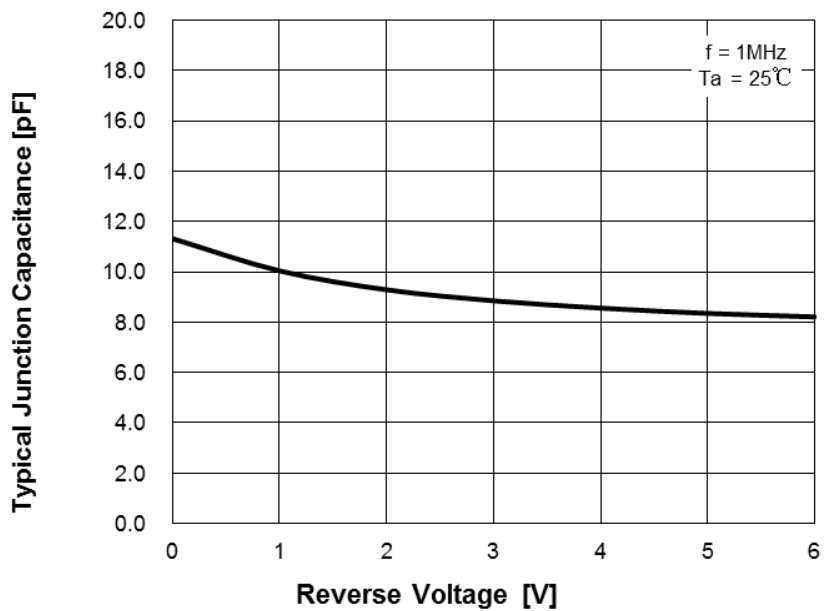
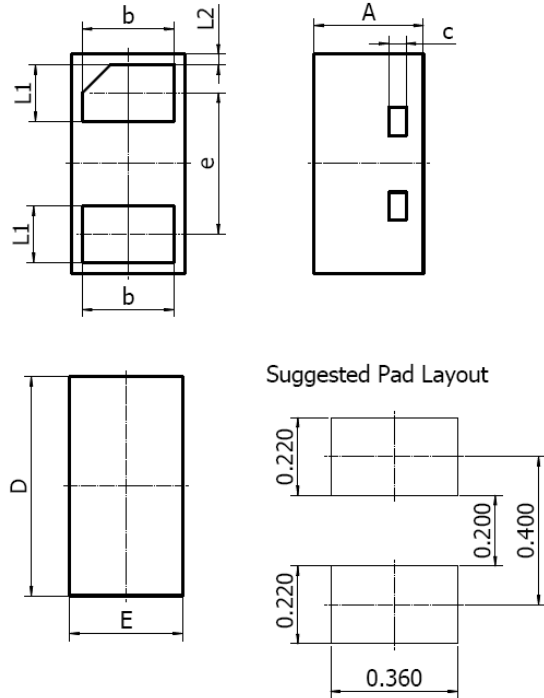


Figure 1. 8 x 20 µs Pulse Waveform

**CAPACITANCE CURVE**



**DFN0603-2 Package Outline Drawing**



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.27	0.35	0.011	0.013
D	0.57	0.67	0.022	0.026
E	0.27	0.37	0.011	0.015
b	0.225	0.295	0.009	0.012
c	0.050REF		0.002REF	
e	0.365	0.435	0.014	0.017
L1	0.125	0.195	0.005	0.008
L2	0.030REF		0.001REF	