



**Features**

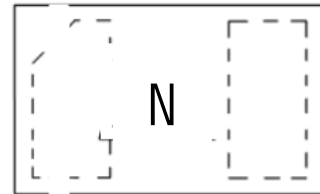
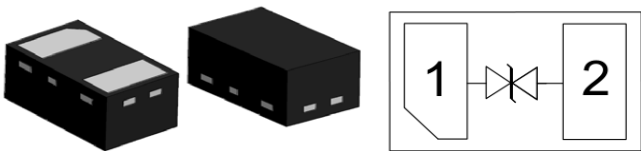
- 80W (8/20 $\mu$ s) Peak Pulse Power
- Low Capacitance ESD Protection
- DFN0603-2 Package
- RoHS Compliant
- Matte Tin Lead finish (Pb-Free)
- Protect One High Speed Data Line
- Meet IEC61000-4-2 Level 4:  
Contact Discharge > 20kV  
Air Discharge > 20kV

**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**

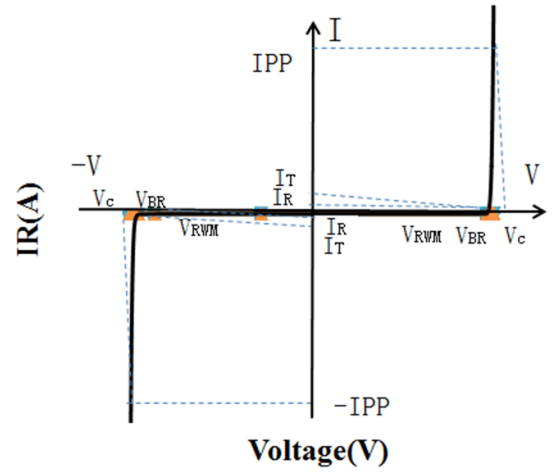
Device	Package	Reel Size	Qty / Reel
LXE0603F5V10B	DFN0603-2	7 inch	10000

**Maximum Ratings (Ta = 25°C)**

Symbol	Parameter	Value	Unit
P <sub>PK</sub>	Peak Pulse Power	80	W
I <sub>PP</sub>	Peak Pulse Current	5	A
V <sub>ESD (Contact)</sub>	Contact ESD Voltage per IEC61000-4-2	20	kV
V <sub>ESD (Air)</sub>	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				5	V
$V_{BR}$	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	6.0		9	V
$I_R$	Reverse Leakage Current	$V_{RWM} = 5\text{V}$			0.5	$\mu\text{A}$
$V_C$	Clamping Voltage	$I_{PP} = 1\text{A}$ (8/20 $\mu\text{s}$ )			12	V
$V_C$	Clamping Voltage	$I_{PP} = 5\text{A}$ (8/20 $\mu\text{s}$ )			17	V
$C_J$	Capacitance	$V_R = 0\text{V}$ , $f = 1\text{MHz}$	8	10	15	pF

**SURGE CURRENT WAVEFORM**

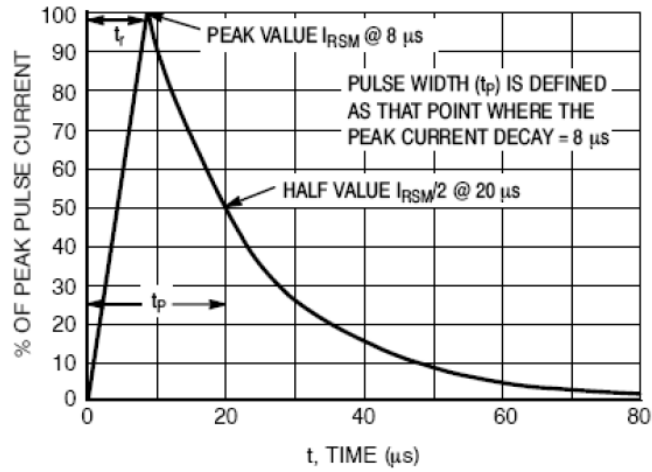
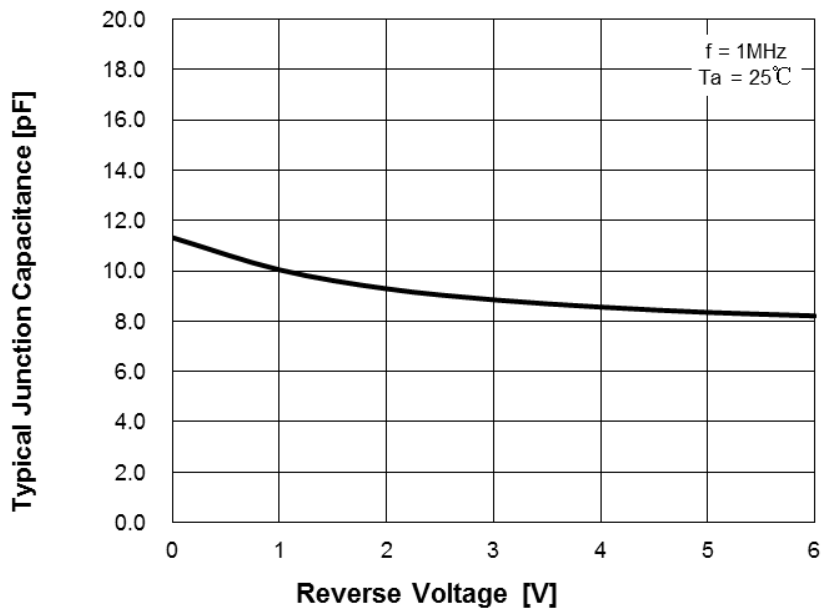
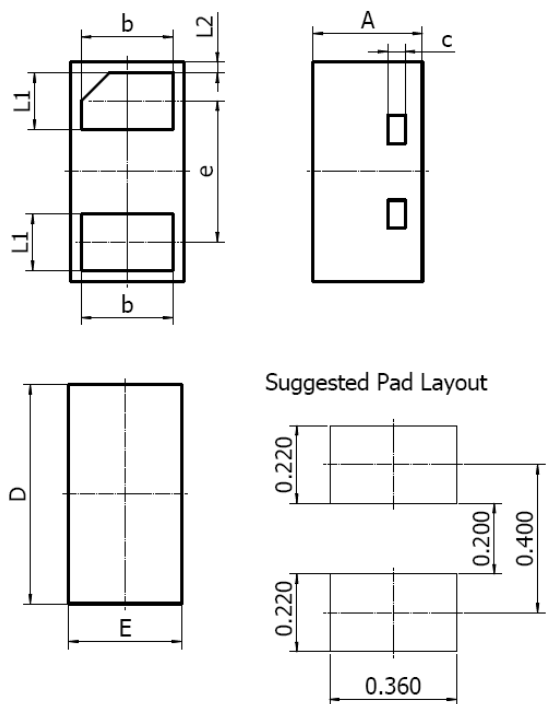


Figure 1. 8 x 20 µs Pulse Waveform

**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	