

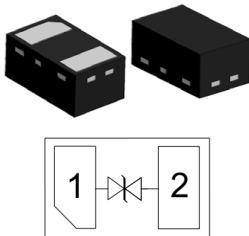
Features

- 100W (8/20 μ s) Peak Pulse Power
- Low Capacitance ESD Protection
- DFN1006-2 Package
- RoHS Compliant
- Matte Tin Lead finish (Pb-Free)
- Protect One High Speed Data Line
- Meet IEC61000-4-2 Level 4:
Contact Discharge > 30kV
Air Discharge > 30kV

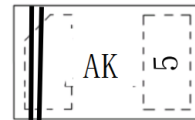
Applications

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

Circuit Diagram



Package Outline



AK = Device Code
5 = Date Code*

Ordering information

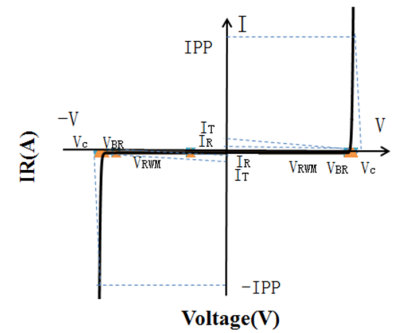
Device	Package	Reel Size	Qty / Reel
LXE5V10PB	DFN1006-2	7 inch	10000

Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	100	W
IPP	Peak Pulse Current	8	A
V _{ESD (Contact)}	Contact ESD Voltage per IEC61000-4-2	30	kV
V _{ESD (Air)}	Air ESD Voltage per IEC61000-4-2	30	kV
T _J	Junction Temperature	-55 to +150	°C
T _{STG}	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 ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{RWM}	Reverse Working Peak Voltage				5	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	5.8		9	V
I_R	Reverse Leakage Current	$V_{RWM} = 5\text{V}$			0.1	μA
V_C	Clamping Voltage	$I_{PP} = 1\text{A} (8/20\mu\text{s})$			10	V
V_C	Clamping Voltage	$I_{PP} = 8\text{A} (8/20 \mu\text{s})$			13	V
C_J	Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	8	10	15	pF

SURGE CURRENT WAVEFORM

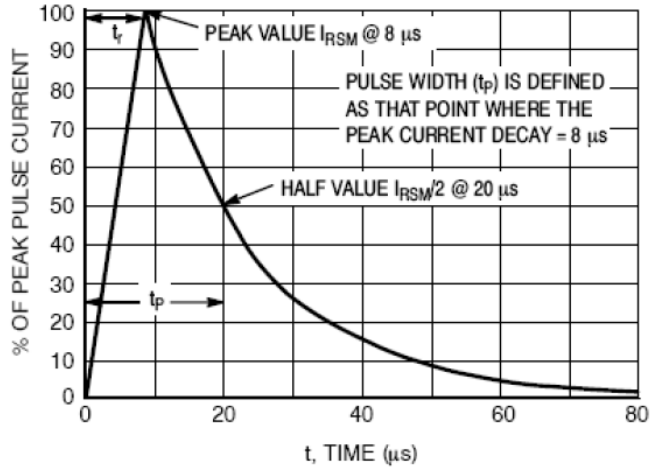


Figure 1. 8 x 20 µs Pulse Waveform

CAPACITANCE CURVE

