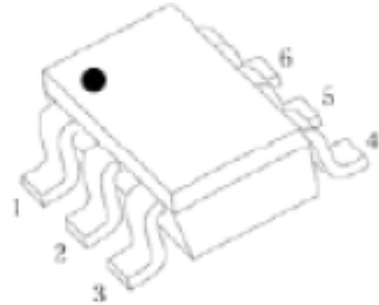


### Features

- 150W(8x20us) Peak Pulse Power
- Low Clamping Voltage
- SOT-23-6L Package
- RoHS Compliant
- Matte Tin Lead finish (Pb-Free)
- Protect One I/O or Power Line
- Meet IEC61000-4-2 Level 4:  
Contact Discharge > 3 0 kV  
Air Discharge > 30 kV

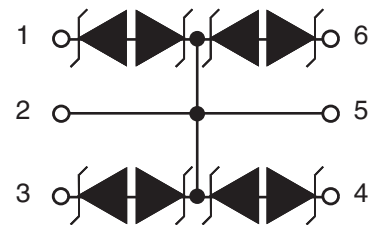
### SOT-23-6L



### Applications

- Smart Phones
- Laptop Computers
- Portable Electronics

### PIN Diagram



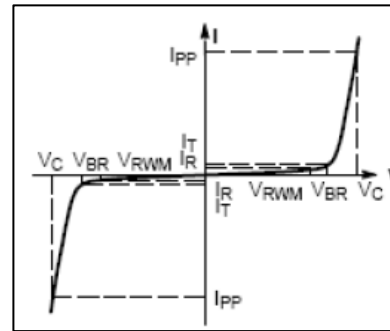
### Ordering information

Device	Package	Qty / Reel
LXE236F5VB	SOT-23-6L	3000

### Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
T <sub>J</sub>	Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C
I <sub>PP Max</sub>	Maximum Peak Pulse Current	10	A
P <sub>PK</sub>	Peak Pulse Power	150	W

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

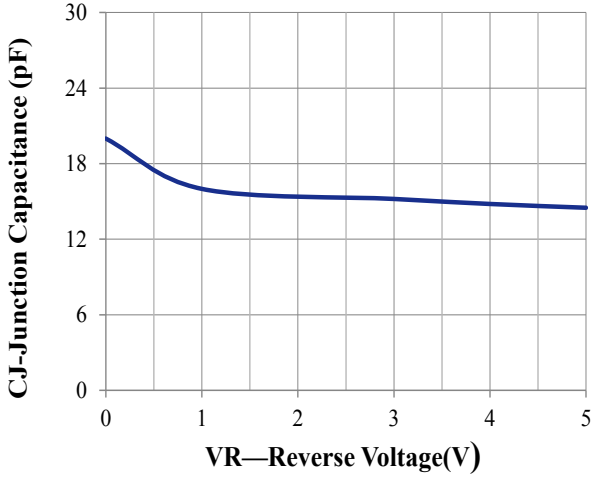


V-I characteristics for a Bi-directional TVS

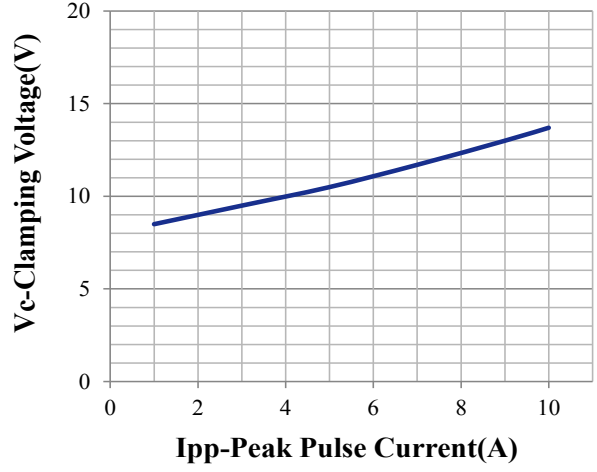
### Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Working Peak Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	6.1	7	8	V
Reverse Leakage Current	$I_R$	$V_{RWM}=5.0V$			1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=1A(8/20\mu s)$			9	V
Clamping Voltage	$V_C$	$I_{PP}=10A(8/20\mu s)$			15	V
Peak Pulse Current	$I_{PP}$	$t_p=8/20\mu s$			10	A
Capacitance	$C_J$	$V_R=0V, f=1MHz$		25		pF

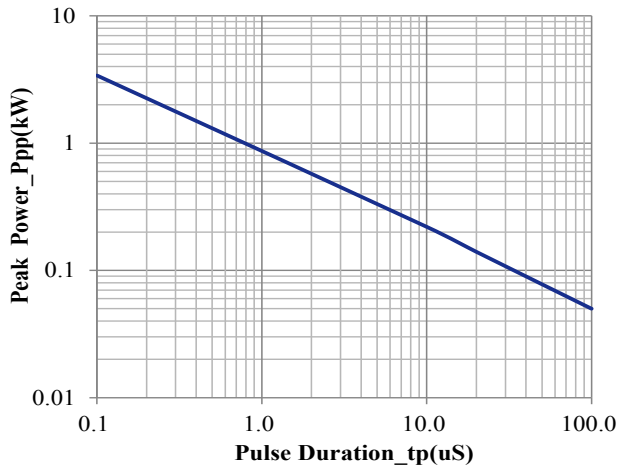
Typical Performance Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise Specified)



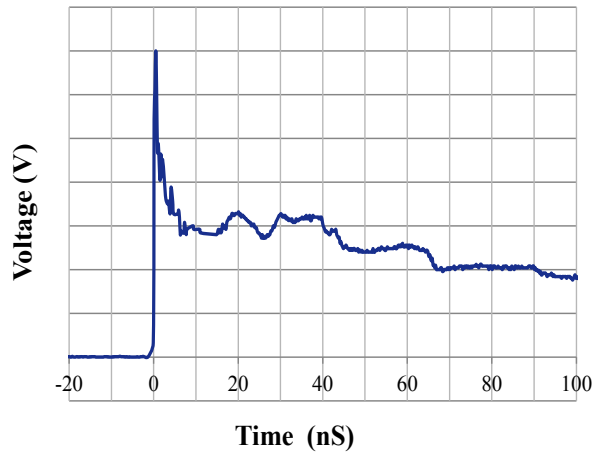
Junction Capacitance vs. Reverse Voltage



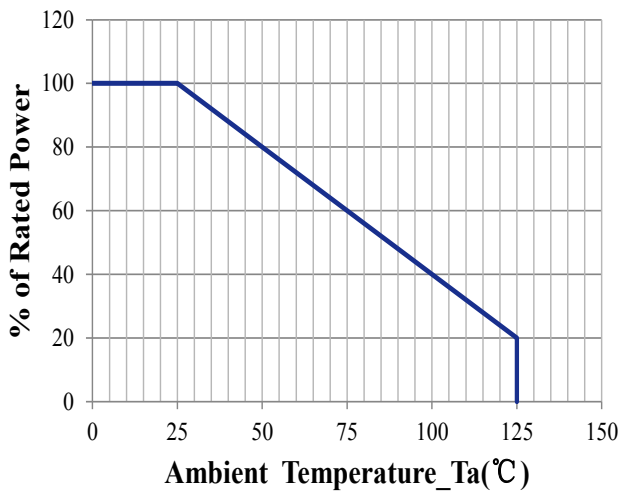
Clamping Voltage vs. Peak Pulse Current



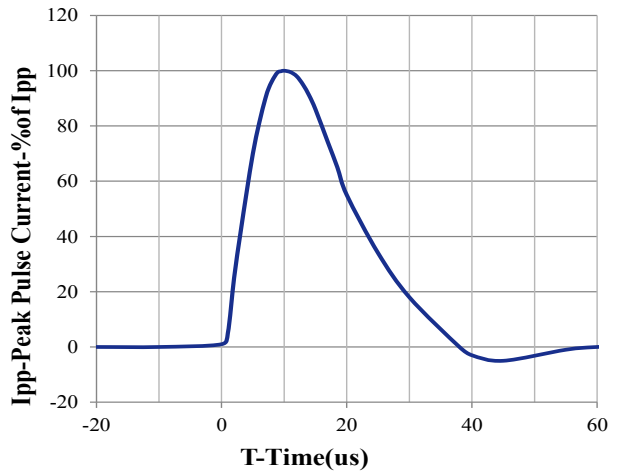
Peak Pulse Power vs. Pulse Time



IEC61000-4-2 Pulse Waveform

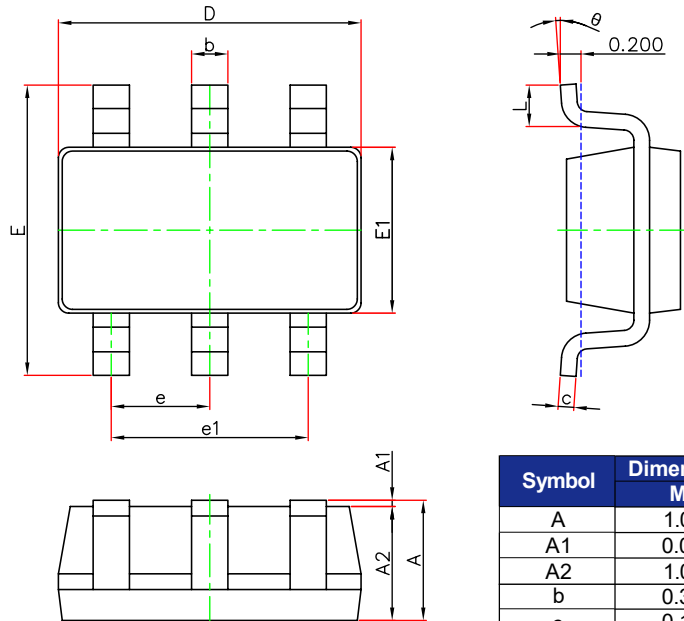


Power Derating Curve



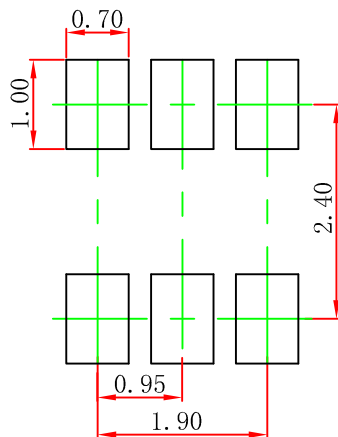
8 X 20us Pulse Waveform

**SOT-23-6L Package Outline Dimensions**



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E1	1.500	1.700	0.059	0.067
E	2.650	2.950	0.104	0.116
e	0.950(BSC)		0.037(BSC)	
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°

**SOT-23-6L Suggested Pad Layout**



Note:  
 1. Controlling dimension: in millimeters.  
 2. General tolerance: ± 0.05mm.  
 3. The pad layout is for reference purposes only.