

## Features

- Ultra low capacitance: 0.5pF typical
- Ultra low leakage: nA level
- Low operating voltage: 15V
- Low clamping voltage
- 2-pin leadless package
- Complies with following standards:
  - – IEC 61000-4-2 (ESD) immunity test
    - Air discharge:  $\pm 15\text{kV}$
    - Contact discharge:  $\pm 8\text{kV}$
- RoHS Compliant
- Lead Finish: NiPdAu

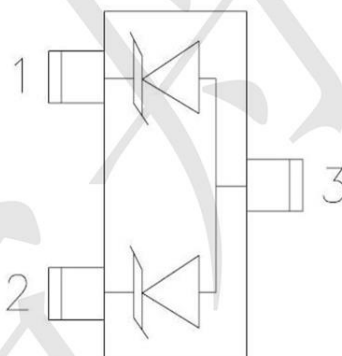
## Mechanical Characteristics

- Package: SOT23
- Lead Finish: Matte Tin
- Case Material: “Green” Molding Compound.
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Shipping Qty :3000pcs/7Inch Tape & Reel

## Applications

- USB 2.0 and USB 3.0
- 10/100/1000 Ethernet
- High-speed data lines
- FireWire
- Local Area Network (LAN) equipmen

## Dimensions and Pin Configuration



**Marking: 27L.x**

“27L” is Part number, fixed

“x” is internal code

**Absolute Maximum Ratings** (Tamb=25°C unless otherwise specified)

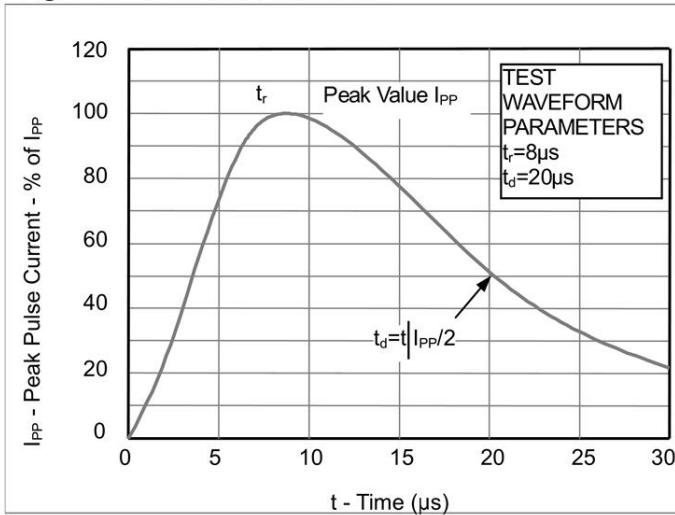
Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air)	VESD	± 15	kV
ESD per IEC 61000-4-2 (Contact)		± 8	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

**Electrical Characteristics** (TA=25°C unless otherwise specified)

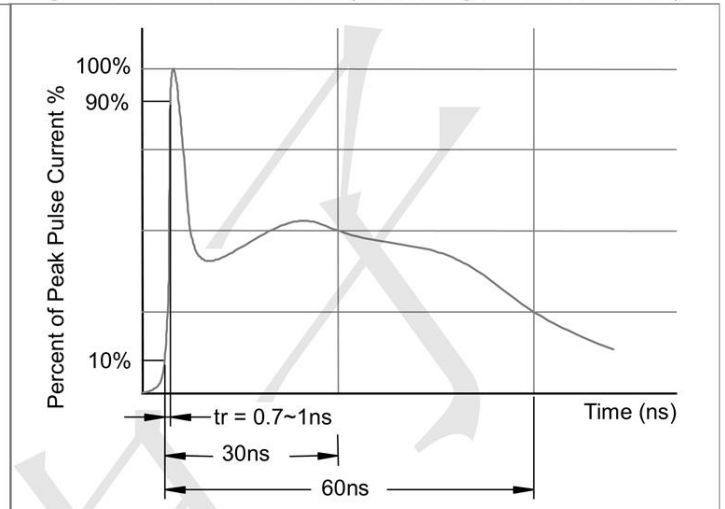
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			24	V	
Breakdown Voltage	VBR	26.4			V	IT = 1mA
Reverse Leakage Current	IR			0.08	μA	VRWM = 24V
Forward Voltage	VF		0.8	1.2	V	IF = 10mA
Clamping Voltage	VC			43	V	I <sub>PP</sub> = 1.2 A (8 x 20μs pulse)
Junction Capacitance	CJ			0.9	pF	VR=0, f=1MHz, Pin 1 to Pin 3 or Pin 2 to Pin 3
Junction Capacitance	CJ		0.5		pF	VR=0, f=1MHz, Pin 1 to Pin 2

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

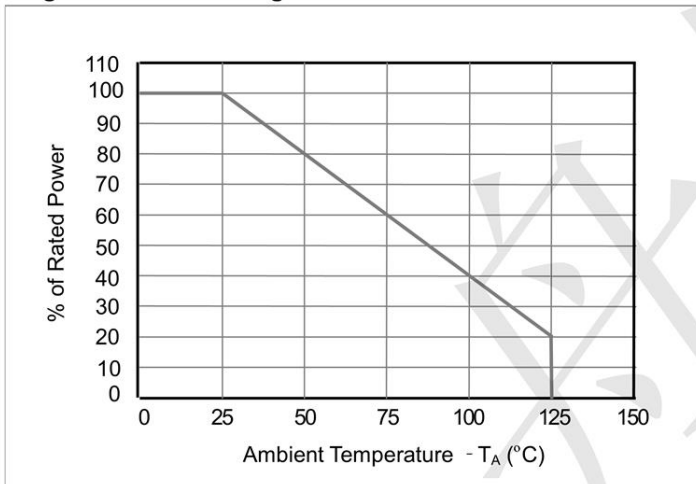
**Fig1. 8/20 $\mu\text{s}$  Pulse Waveform**



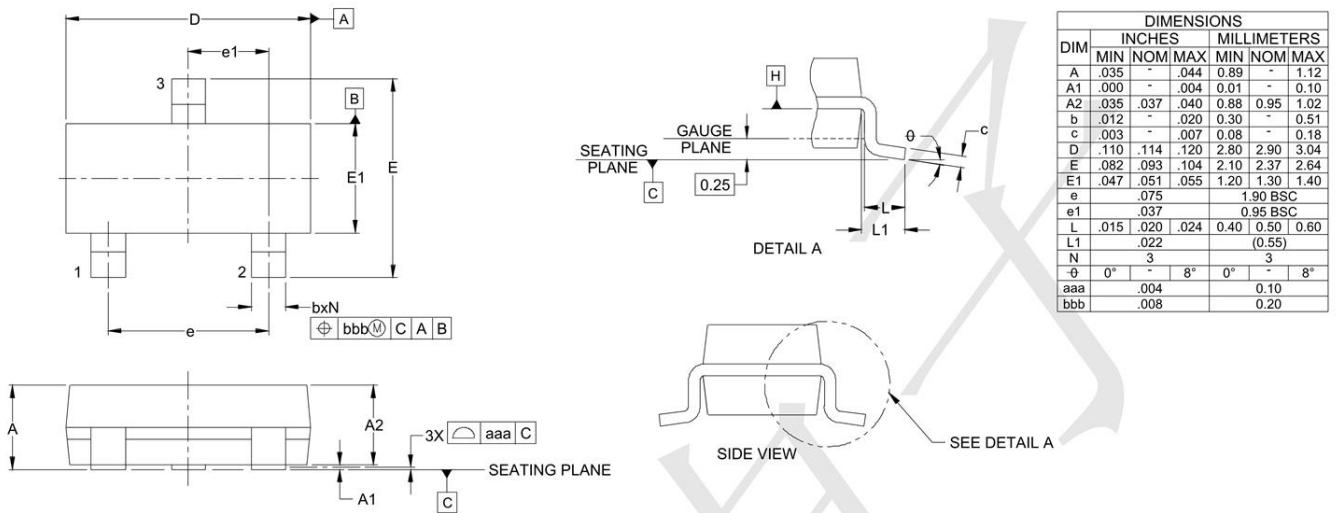
**Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)**



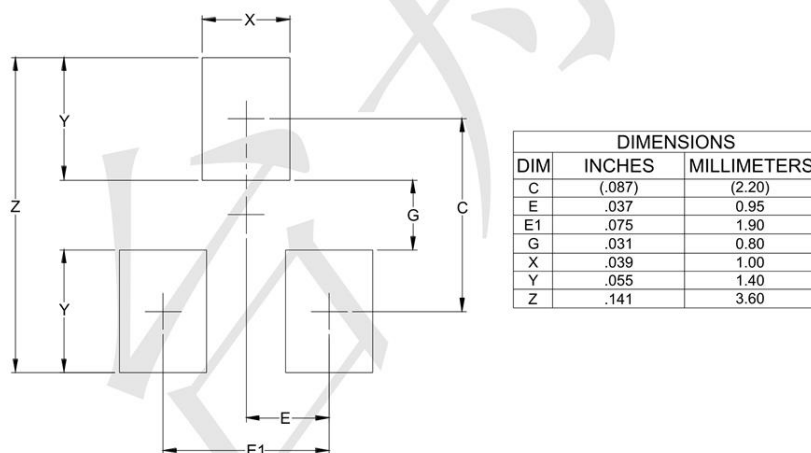
**Fig3. Power Derating Curve**



## Outline Drawing - SOT23



## Land Pattern - SOT23



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