

### Features

- Ultra low leakage: nA level
- Operating voltage: 5V
- Low clamping voltage
- Complies with following standards:
  - IEC 61000-4-2 (ESD) immunity test
    - Air discharge:  $\pm 30\text{kV}$
    - Contact discharge:  $\pm 30\text{kV}$
  - IEC61000-4-4 (EFT) 40A (5/50ns)
  - IEC61000-4-5 (Lightning) 12A (8/20 $\mu\text{s}$ )
- RoHS Compliant

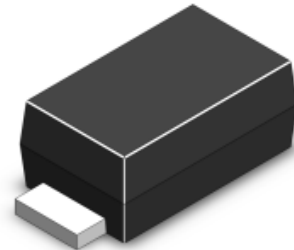
### Applications

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100 Ethernet

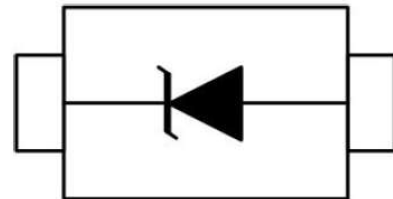
### Mechanical Characteristics

- Package: SOD-923
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel: 8,000pcs
- Reel Size: 7 inch

### Dimensions SOD-923



### Pin Configuration



### Absolute Maximum Ratings (T<sub>amb</sub>=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 $\mu\text{s}$ )	P <sub>pp</sub>	92	W
ESD per IEC 61000-4-2 (Air)	V <sub>ESD</sub>	$\pm 30$	Kv
ESD per IEC 61000-4-2 (Contact)		$\pm 30$	
Operating Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STJ</sub>	-55 to +150	°C

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

Part Number	Device Marking	V <sub>RWM</sub> (V)	V <sub>BR</sub> (V)	I <sub>T</sub> (mA)	V <sub>C</sub> @1A	V <sub>C</sub>		I <sub>R</sub> μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
ESD9D5V	E1	5	6.2	1	7	12.3	8	1	40

## Characteristic Curves

Fig1. 8/20μs Pulse Waveform

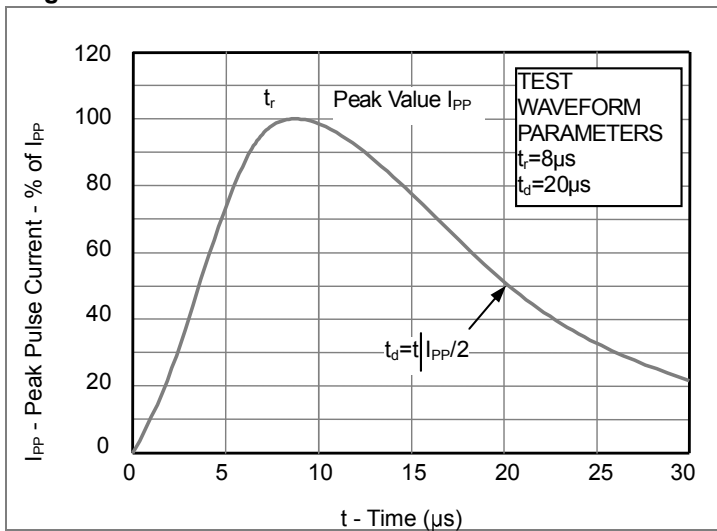


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

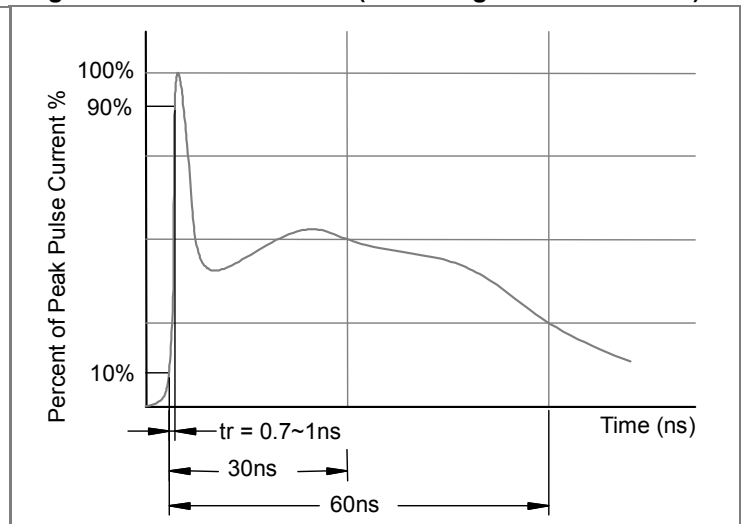
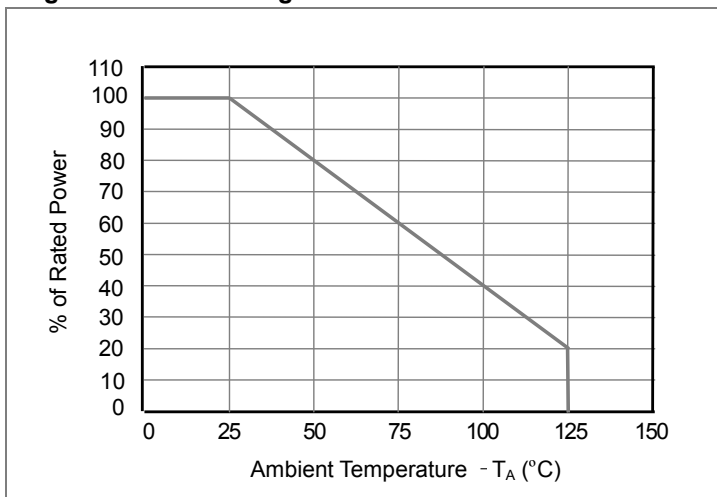
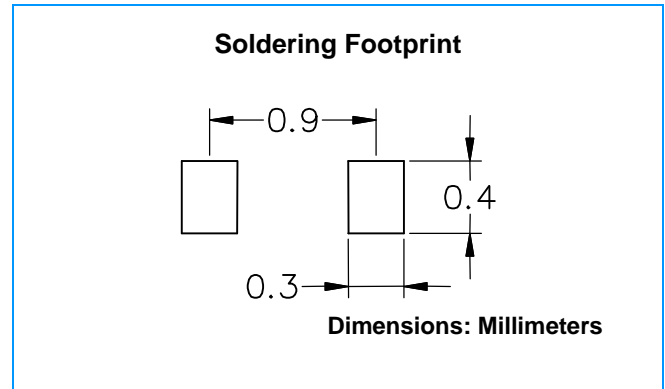
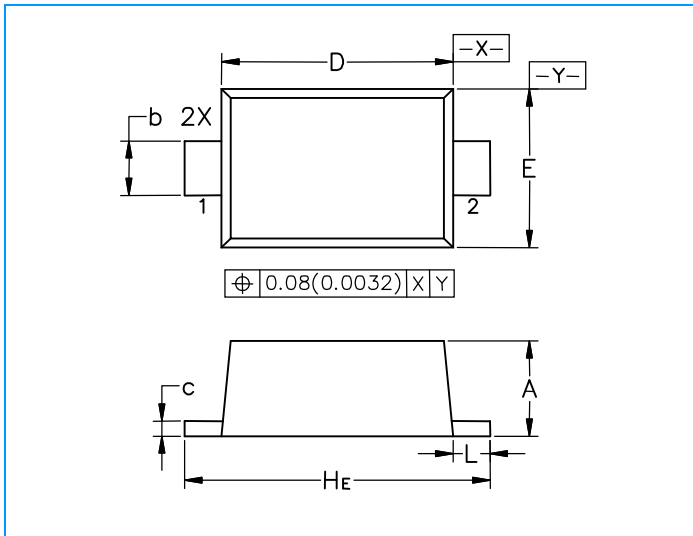


Fig3. Power Derating Curve



## SOD-923 Mechanical Data



Dim	Millimeters			Inches		
	Min	Nom	Max	Min	Nom	Max
<b>A</b>	0.36	0.40	0.43	0.014	0.016	0.017
<b>b</b>	0.15	0.20	0.25	0.006	0.008	0.010
<b>c</b>	0.07	0.12	0.17	0.003	0.005	0.007
<b>D</b>	0.75	0.80	0.85	0.030	0.031	0.033
<b>E</b>	0.55	0.60	0.65	0.022	0.024	0.026
<b>H<sub>E</sub></b>	0.95	1.00	1.05	0.037	0.039	0.041
<b>L</b>	0.05	0.10	0.15	0.002	0.004	0.006

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