

### Features

- Ultra low leakage: nA level
- Operating voltage: 15V
- 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) 17A (8/20 $\mu\text{s}$ )
- RoHS Compliant

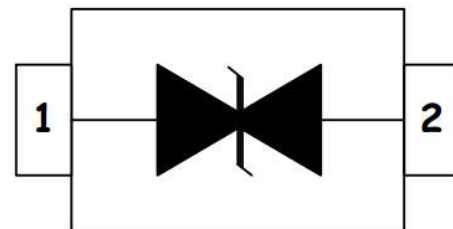
### Dimensions SOD-323



### 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

### Pin Configuration



### Mechanical Characteristics

- Package: SOD-323
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel: 3,000 pcs
- Reel Size: 7 inch

### 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>  | 600         | 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) |                         |               |
| RLSD32A151C | 2J             | 15                   | 16.7                | 1                   | 24                 | 34             | 17   | 1                       | 68            |

## Characteristic Curves

Fig1. 8/20μs Pulse Waveform



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

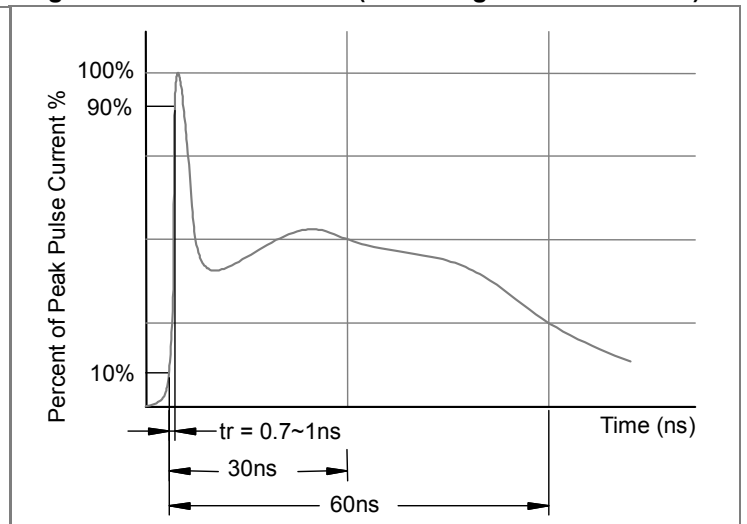


Fig3. Power Derating Curve

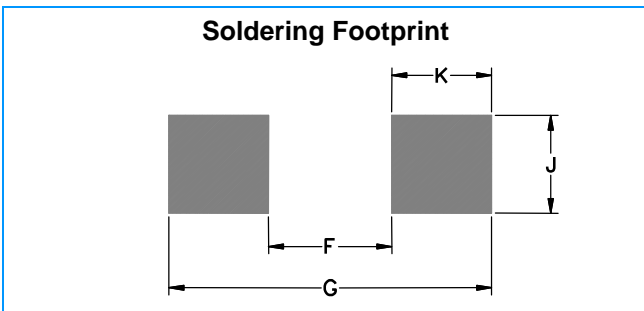


## SOD-323 Package Outline & Dimensions



| Symbol               | Millimeters |      |       | Inches    |       |       |
|----------------------|-------------|------|-------|-----------|-------|-------|
|                      | Min.        | Nom. | Max.  | Min.      | Nom.  | Max.  |
| <b>A</b>             | 0.80        | 0.90 | 1.15  | 0.031     | 0.035 | 0.045 |
| <b>A1</b>            | 0.001       | 0.05 | 0.15  | 0.004     | 0.002 | 0.006 |
| <b>A3</b>            | 0.15 REF    |      |       | 0.006 REF |       |       |
| <b>b</b>             | 0.25        | 0.32 | 0.45  | 0.010     | 0.012 | 0.018 |
| <b>C</b>             | 0.100       | 0.12 | 0.150 | 0.004     | 0.005 | 0.006 |
| <b>D</b>             | 1.60        | 1.70 | 1.95  | 0.063     | 0.066 | 0.077 |
| <b>E</b>             | 1.10        | 1.25 | 1.50  | 0.043     | 0.049 | 0.059 |
| <b>L</b>             | 0.08        |      |       | 0.003     |       |       |
| <b>H<sub>E</sub></b> | 2.65        | 2.85 | 3.10  | 0.104     | 0.112 | 0.122 |

### Soldering Footprint



| Symbol   | Millimeters | Inches |
|----------|-------------|--------|
| <b>F</b> | 1.60        | 0.063  |
| <b>G</b> | 3.20        | 0.125  |
| <b>J</b> | 0.60        | 0.024  |
| <b>K</b> | 0.80        | 0.031  |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [ESD Suppressors / TVS Diodes](#) category:*

*Click to view products by [Leiditech](#) manufacturer:*

Other Similar products are found below :

[60KS200C](#) [D18V0L1B2LP-7B](#) [D5V0F4U5P5-7](#) [NTE4902](#) [P4KE27CA](#) [P6KE11CA](#) [P6KE8.2A](#) [SA60CA](#) [SA64CA](#) [SMBJ12CATR](#)  
[SMBJ33CATR](#) [SMBJ6.5A](#) [SMBJ8.0A](#) [ESD101-B1-02ELS](#) [E6327](#) [ESD112-B1-02EL](#) [E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-](#)  
[HF](#) [3.0SMCJ33CA-F](#) [3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JANTX1N6126A](#) [D3V3Q1B2DLP3-7](#) [D55V0M1B2WS-7](#) [SCM1293A-04SO](#)  
[ESD200-B1-CSP0201](#) [E6327](#) [SM12-7](#) [CEN955](#) [W/DATA](#) [VESD12A1A-HD1-GS08](#) [CPDQC5V0-HF](#) [D1213A-01LP4-7B](#) [ESD101-B1-02EL](#)  
[E6327](#) [AOZ8808DI-03](#) [5KP15A](#) [5KP48A](#) [5KP90A](#) [ESD3V3D7-TP](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#) [P4KE91CATR](#) [P6KE120A](#)  
[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)