

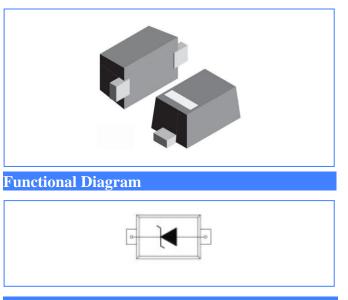
ESD3V3D5

Description

ESD3V3D5 is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium.

Features

- 200 Watts Peak Pulse Power per Line (tp=8/20µs)
- Operating voltage: 3.3V
- Low leakage current
- Package: SOD-523
- Low clamping voltage
- Complies with following standards:
- IEC 61000-4-2 (ESD) immunity test
 Air discharge: ±15kV
 - Contact discharge: ±8kV



Applications

- Cellular Handsets and Accessories
- Portable Electronics
- Industrial Controls
- Set-Top Box
- Instrumentation
- Servers, Notebook, and Desktop PC
- Display Ports

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

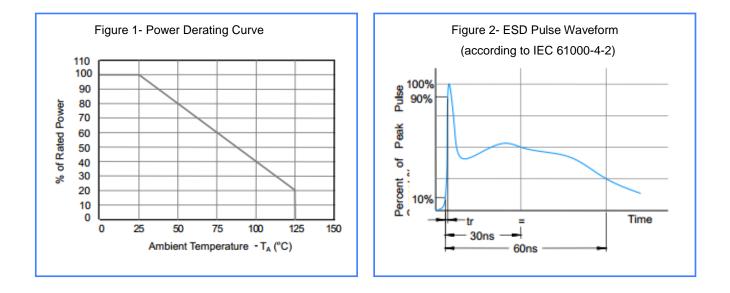
| Parameter | Symbol | Value | Unit | |
|---------------------------------|------------------|--------------|-------|--|
| Peak Pulse Power (8/20µs) | P _{PP} | 200 | Watts | |
| ESD per IEC 61000-4-2 (Air) | N/ | ±15 | KV | |
| ESD per IEC 61000-4-2 (Contact) | V _{ESD} | ±8 | KV | |
| Lead Soldering Temperature | TL | 260 (10 sec) | °C | |
| Operating Temperature Range | TJ | -55 to +125 | °C | |
| Storage Temperature Range | T _{STJ} | -55 to +150 | °C | |



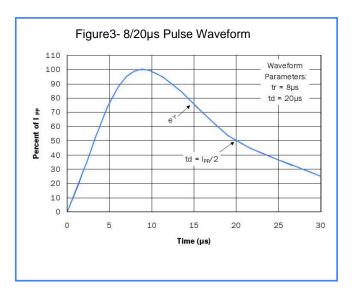
Electrical Characteristics (TA = 25 $^{\circ}$ C unless otherwise noted)

| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|------------------------------|--------|---------------------|------|------|------|-------|
| Reverse Stand-off Voltage | VRWM | | | | 3.3 | V |
| Reverse Breakdown Voltage | VBR | lt = 1mA | 4 | | | V |
| Reverse Leakage Current | IR | VR =VRWM | | | 200 | μA |
| Clamping Voltage | VC | IPP=1A, tP = 8/20µs | | | 7 | V |
| Clamping Voltage | VC | IPP=8A, tP = 8/20µs | | | 12 | V |
| Junction Capacitance | CJ | VR=0V, f = 1MHz | | | 200 | pF |

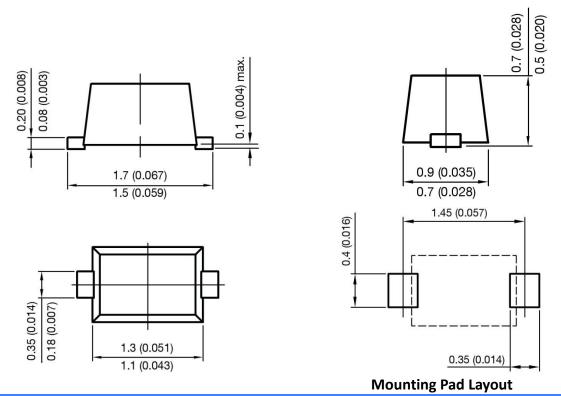
Characteristics Curves







ACKAGE OUTLINE DIMENSIONS in millimeters (inches) :SOD523



Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.