

ESD3V3D5B

Description

ESD3V3D5B 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

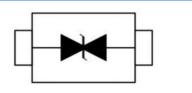
- ●100 Watts Peak Pulse Power per Line (tp=8/20µs)
- Operating voltage: 3.3V
- Low leakage current
- Package: SOD-523
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test

Air discharge: ±15kV Contact discharge: ±8kV

- IEC61000-4-4 (EFT) 40A (5/50ηs)



Functional Diagram



Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Peripherals
- Pagers

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

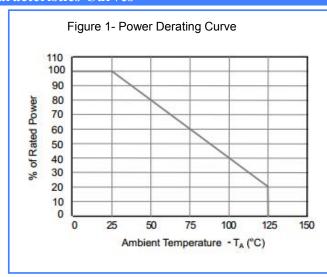
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	P _{PP}	100	Watts
ESD per IEC 61000-4-2 (Air)	V	±15	KV
ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±8	KV
Lead Soldering Temperature	TL	260 (10 sec)	°C
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

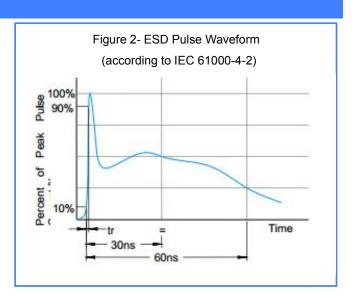


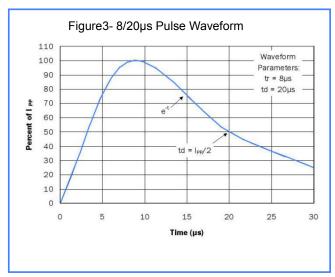
Electrical Characteristics (TA = 25 °C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V _{RWM}				3.3	٧
Reverse Breakdown Voltage	V_{BR}	I _t = 1mA	4			٧
Reverse Leakage Current	I _R	V _R =V _{RWM}			1	μΑ
Clamping Voltage	Vc	I _{PP} =1A, t _P = 8/20μs			7	V
Clamping Voltage	VC	I_{PP} =8A, t_P = 8/20 μ s			12	V
Junction Capacitance	CJ	V _R =0V, f = 1MHz			10	pF

Characteristics Curves

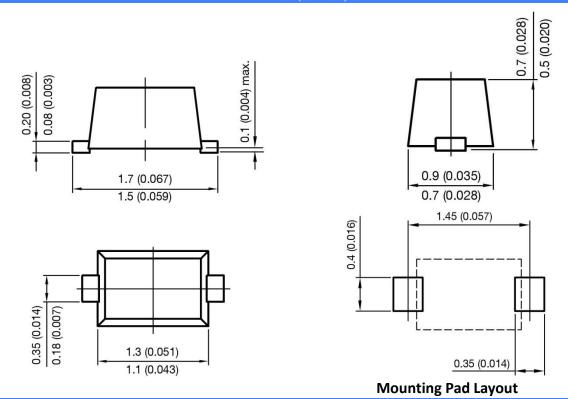








ACKAGE OUTLINE DIMENSIONS in millimeters (inches) :SOD523



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.