

ESD15VD3B

Description

ESD15VD3B 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. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium

Features

- Ultra low leakage: nA levelOperating voltage: 15V
- Package: SOD-323Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test

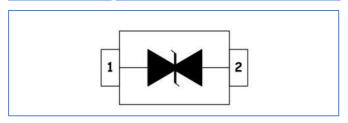
Air discharge: ±15kV Contact discharge: ±8kV

- IEC61000-4-4 (EFT) 40A (5/50ns)

- IEC61000-4-5 (Lightning) 12A (8/20µs)



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)

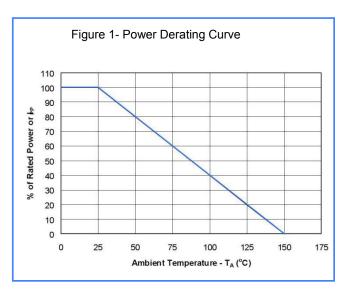
Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	P _{PP}	320	Watts	
ESD per IEC 61000-4-2 (Air)		±15	K٧	
ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±8	K۷	
Lead Soldering Temperature	T∟	260 (10 sec)	°C	
Operating Temperature Range	T₃	-55 to +150	°C	
Storage Temperature Range	T _{STJ}	-55 to +150	°C	

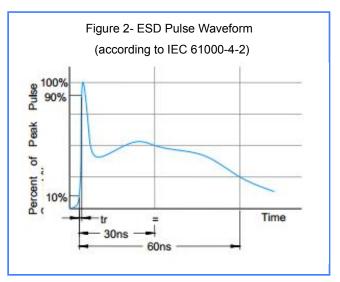


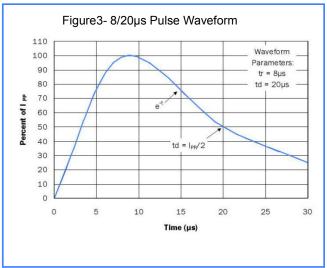
Electrical Characteristics (TA = 25 °C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V_{RWM}				15	V
Reverse Breakdown Voltage	V_{BR}	It = 1 _m A	16.7			V
Reverse Leakage Current	lr	VR =VRWM			1	μΑ
Clamping Voltage	Vc	IPP=1A, tP = 8/20μs			24	V
		IPP=10A, tP = 8/20µs			30	V
Junction Capacitance	Cı	VR=0V, f = 1MHz			100	pF

Characteristics Curves

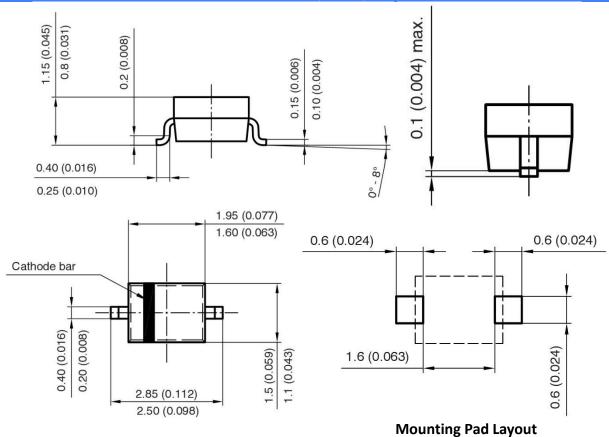












Disclaimer

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.