

SOD-323 SD24CWS





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Bidirectional TVS Diodes

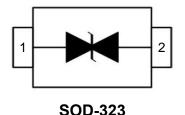
DESCRIPTION

The SDxxCWS Series is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

This series has been specifically designed to protect sensitive components which are connected to power, data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

APPLICATIONS

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports.
- Peripherals



FEATURES

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- 350 Watts Peak Pulse Power per (tp=8/20µs)
- Protects one I/O line (bidirectional)
- Low clamping voltage
- Working voltages : 24V
- Low leakage current

MACHANICAL DATA

- SOD-323 package
- Flammability Rating: UL 94V-0
- Packaging: Tape and Reel
- High temperature soldering guaranted:260°C/10s
- Reel size: 7 inch



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ABSOLUTE MAXIMUM RATING

Symbol	Parameter	Value	Units			
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±30	kV			
■ E2D	ESD per IEC 61000-4-2 (Contact)	±30	1. 0			
P _{PP}	Peak Pulse Power (8/20μs)	350	W			
T _{OPT}	Operating Temperature	-55/+150	°C			
T _{STG}	Storage Temperature	-55/+150	°C			
TL	Lead Soldering Temperature	260 (10 sec.)	°C			

ELECTRICAL CHARACTERISTICS (Tamb=25

PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (V) (max.)		′c /) (@A)	I _R (μΑ) (max.)	C _T (pF) (max.)
SD24CWS	2H	24.0	26.7	1	43.0	52.0	7	1	50

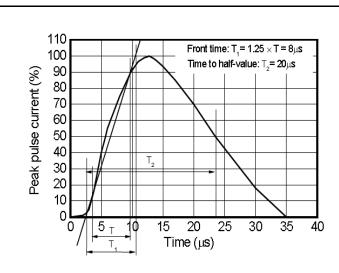


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ELECTRICAL CHARACTERISTICS CURVE



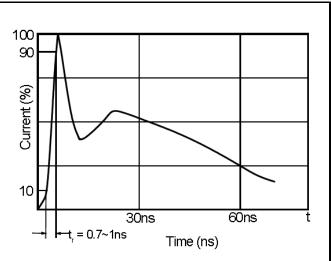


Fig 1 8/2 0µs waveform per IEC61000-4-5

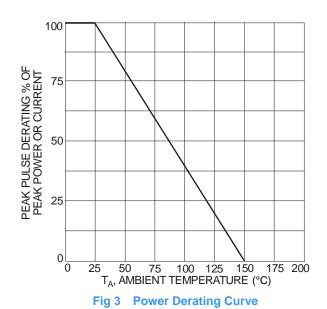


Fig 2 ESD pulse waveform according to IEC61000-4-2



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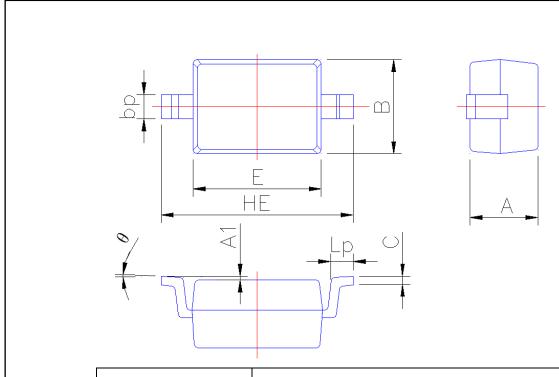
SD24CWS

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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



Dimension in Millimeters				
Min	Max			
0.95	1.15			
0.010	0.100			
1.20	1.40			
0.25	0.40			
0.09	0.150			
1.60	1.80			
2.30	2.70			
0.20	0.40			
0°	5°			
	Min 0.95 0.010 1.20 0.25 0.09 1.60 2.30 0.20			