

# HSD24C

Bidirectional TVS Diodes

### **DESCRIPTION**

The HSD24C is designed for applications requiring transient overvoltage protection capability. This is intended for use in voltage and ESD sensitive equipment such as computers, business machines, communication printers, medical and other systems, equipment applications. These devices are ideal for situations where board space is at a premium.

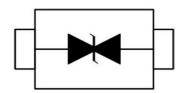
This has been specifically designed to protect sensitive components which are connected to power, data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

### ORDERING INFORMATION

Device: HSD24CPackage: SOD-323Material: Halogen freePacking: Tape & Reel

♦ Quantity per reel: 3,000pcs

## **PIN CONFIGURATION**



### **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
- ♦MSL 1

### **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

### PACKAGE OUTLINE





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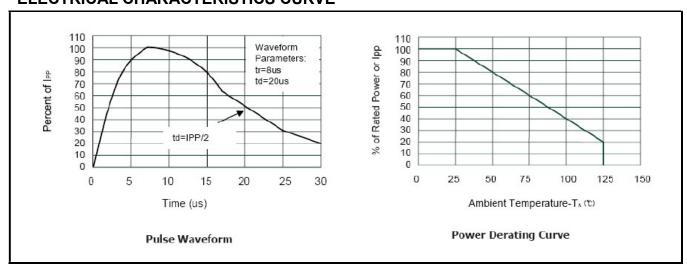
### **ABSOLUTE MAXIMUM RATING**

Symbol	Parameter	Value	Units	
V <sub>ESD</sub>	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV	
P <sub>PP</sub>	Peak Pulse Power (8/20μs)	350	W	
T <sub>OPT</sub>	Operating Temperature	-55/+150	°C	
T <sub>STG</sub>	Storage Temperature	-55/+150	°C	
TL	Lead Soldering Temperature	260 (10 sec.)	°C	

### **ELECTRICAL CHARACTERISTICS (Tamb=25°C)**

PART NUMBER	DEVICE MARKING	V <sub>RWM</sub> (V) (max.)	V <sub>B</sub> (V) (min.)	I <sub>T</sub> (mA)	V <sub>C</sub> @1A (V) (max.)	İ	/c /) (@A)	I <sub>R</sub> (μΑ) (max.)	C <sub>⊤</sub> (pF) (max.)
HSD24C	2H	24.0	26.7	1	43.0	52.0	7	1	50

# **ELECTRICAL CHARACTERISTICS CURVE**







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### **SOD-323 PACKAGE OUTLINE DIMENSIONS**

