

Transient Voltage Suppressors

DESCRIPTION

The ESD5Z24 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, portable devices, digital cameras, power supplies and many other portable applications.

ORDERING INFORMATION

Device: SLESD5Z24Package: SOD-523

♦ Marking: 5S

♦ Material: Halogen free and RoHS compliant

♦ Packing: Tape & Reel♦ Quantity per reel: 3,000pcs

FEATURES

- ♦IEC61000-4-2 Level 4 ESD Protection
- ♦ Protects one directional I/O line
- ♦Low clamping voltage
- ♦ Working voltages : 24V
- ♦Low leakage current

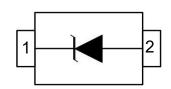
MACHANICAL DATA

- ♦SOD-523 package
- ♦Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦ High temperature soldering guaranteed: 260°C/10s
- ♦Reel size: 7 inch

APPLICATIONS

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

PIN CONFIGURATION



PACKAGE OUTLINE



ABSOLUTE MAXIMUM RATING						
Symbol	Parameter	Value	Unit			
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV			
P _D	Total Power Dissipation on FR-5 Board (Note 1) @ Ta=25°C	150	mW			
T _{OPT}	Operating Temperature	-55~125	°C			
T _{STG}	Storage Temperature	-55~150	°C			

These ratings are limiting values above which the serviceability of the diode may be impaired. Note 1: FR-5=1.0x0.75x0.62 in.



ELECTRICAL CHARACTERISTICS (Tamb=25°C)								
Symbol	Parameter	Test Condition	Min	Тур	Max	Units		
V_{RWM}	Reverse Working Voltage				24	٧		
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	26			V		
I _R	Reverse Leakage Current	V _{RWM} = 24V			1	μA		
Vc	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			35	V		
Сл	Junction Capacitance	V _R = 0V, f = 1MHz			50	pF		

ELECTRICAL CHARACTERISTICS CURVE

