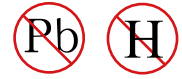




Unidirectional TVS Diode for ESD Protection



Features

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

Main Applications

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

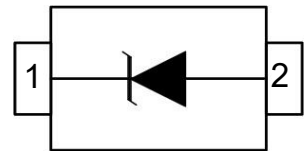
Mahanical Data

- Flammability Rating: UL 94V-0
- High temperature soldering guaranteed:260°C/10s

Ordering Information

Device	Marking	Qty per Reel	Reel Size
YSESD5Z24T	5S	3000	7 Inch

SOD-523FL



ABSOLUTE MAXIMUM RATING

Symbol	Parameter	Value	Units
V_{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	± 25 ± 20	kV
P_D	Total Power Dissipation on FR-5 Board (Note 1) @ $T_a=25^\circ C$	150	mW
T_{OPT}	Operating Temperature	-55~125	$^\circ C$
T_{STG}	Storage Temperature	-55~150	$^\circ C$

These ratings are limiting values above which the serviceability of the diode may be impaired.

Note 1: FR-5=1.0x0.75x0.62 in.

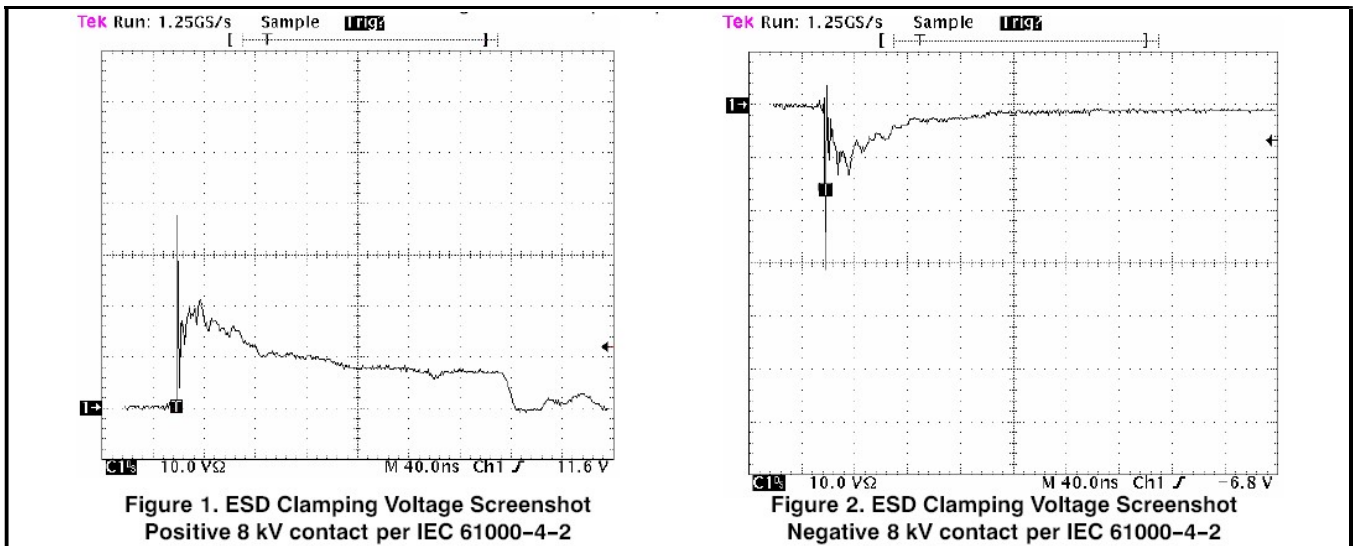
DEVICE CHARACTERISTICS

YSESD5Z24T

ELECTRICAL CHARACTERISTICS (Tamb=25°C)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V_{RWM}	Reverse Working Voltage				24	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	26			V
I_R	Reverse Leakage Current	$V_{RWM} = 24\text{V}$			5	μA
V_C	Clamping Voltage	$I_{PP} = 1\text{A}$, $t_p = 8/20\mu\text{s}$			35	V
C_J	Junction Capacitance	$V_R = 0\text{V}$, $f = 1\text{MHz}$			50	pF

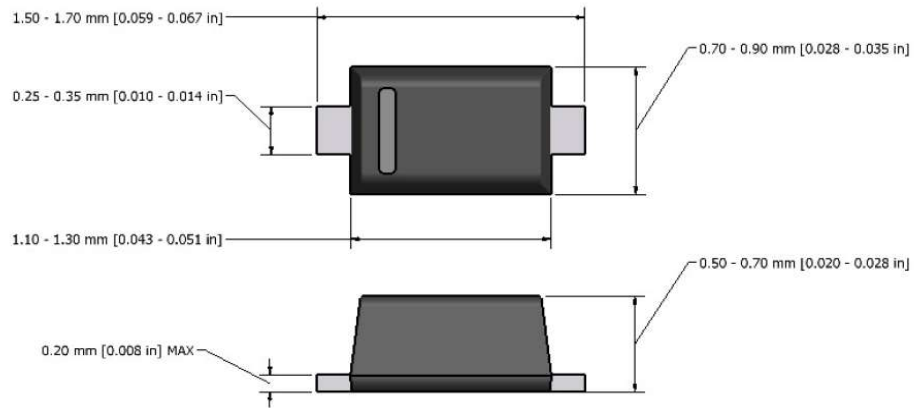
ELECTRICAL CHARACTERISTICS CURVE



PACKAGE OUTLINE & DIMENSIONS

YSESD5Z24T

SOD-523FL PACKAGE OUTLINE DIMENSIONS



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

Recommended Pad outline

