

Transient Voltage Suppressors

DESCRIPTION

The ESD5Z36 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.

APPLICATIONS

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

FEATURES

- ♦IEC61000-4-2 Level 4 ESD Protection
- ♦Protects one directional I/O line
- ♦Low clamping voltage
- ♦Working voltages: 36V
- ♦Low leakage current

MACHANICAL DATA

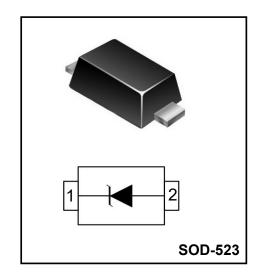
♦SOD-523 package

♦Flammability Rating: UL 94V-0 ♦Packaging: Tape and Reel

♦High temperature soldering guaranted:260 °C/10s

♦Reel size: 7 inch

Marking: ZS



ABSOLUTE MAXIMUM RATING

Symbol	Parameter	Value	Unit
	ESD per IEC 61000-4-2 (Air)	±25	
V _{ESD}	ESD per IEC 61000-4-2 (Contact)	±20	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				36	V
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	40			٧
I _R	Reverse Leakage Current	V _{RWM} = 36V			5	μA
Vc	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			55	V
Сл	Junction Capacitance	V _R = 0V, f = 1MHz			28	pF

ELECTRICAL CHARACTERISTICS CURVE

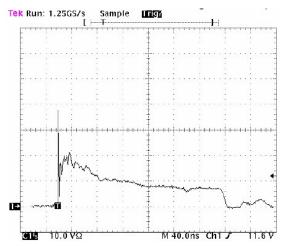


Figure 1. ESD Clamping Voltage Screenshot Positive 8 kV contact per IEC 61000-4-2

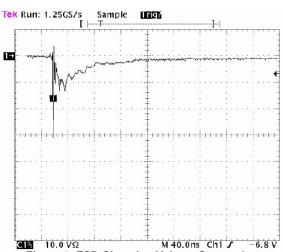
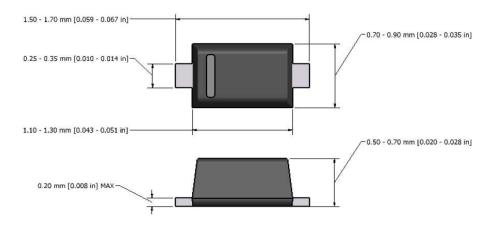


Figure 2. ESD Clamping Voltage Screenshot Negative 8 kV contact per IEC 61000-4-2

Package Outline SOD-523



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

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOD-523	Tape/Reel,7"reel	3000	EIA-481-1

www.yfwdiode.com Rev:2023Q1 2 / 2 GuangDongYoufeng Microelectronics Co,Ltd.

单击下面可查看定价,库存,交付和生命周期等信息

>>YFW(佑风微)