

Transient Voltage Suppressors

DESCRIPTION

The SLESD5Z Series 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

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

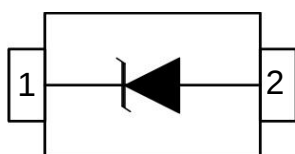
FEATURES

- ✧ IEC61000-4-2 Level 4 ESD Protection
- ✧ Protects one directional I/O line
- ✧ Low clamping voltage
- ✧ Working voltages : 2.5, 3.3V, 5V, 6V, 7V, 12V
- ✧ 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
- ✧ Quantity per reel: 3,000pcs

PIN CONFIGURATION



PACKAGE OUTLINE



ABSOLUTE MAXIMUM RATING

Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±30	kV
	ESD per IEC 61000-4-2 (Contact)	±30	
ESD	ESD Voltage per human body model	16	kV
	ESD Voltage per machine model	400	V
P _D	Total Power Dissipation on FR-5 Board (Note 1) @ Ta=25°C	150	mW
T _J , T _{STG}	Junction and Storage Temperature	-55/+150	°C
T _L	Lead Solder Temperature – Maximum (10 Second Duration)	260	°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)

PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	I _R (μA) (max.)	V _B (V) (min.)	I _T (mA)	V _{C@5A} (V) (max.)	V _C (V) (max.) (@A)	P _{PK} (W) (max.)	C _J (pF) (max.)
SLESD5Z2V5	ZD + code	2.5	6.00	4.0	1	8.5	10.9	120	145
SLESD5Z3V3	ZE + code	3.3	0.90	5.0	1	9.4	14.1	158	105
SLESD5Z5V0	ZF + code	5.0	0.08	6.2	1	11.6	18.6	174	80
SLESD5Z6V0	ZG + code	6.0	0.05	6.8	1	12.4	20.5	181	70
SLESD5Z7V0	ZH + code	7.0	0.03	7.5	1	13.5	22.7	200	65
SLESD5Z12V	ZM + code	12.0	0.03	14.1	1	23.0	29.0	174	45

ELECTRICAL CHARACTERISTICS CURVE

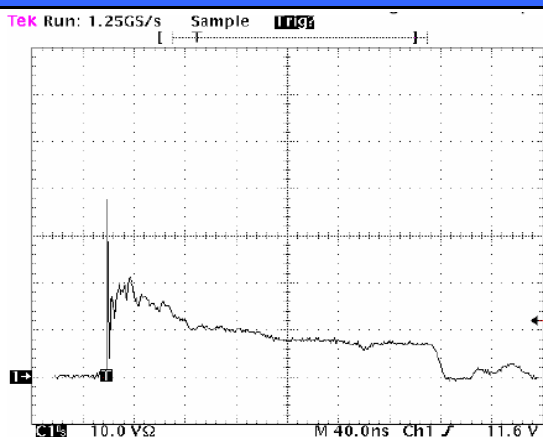


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV contact per IEC 61000-4-2

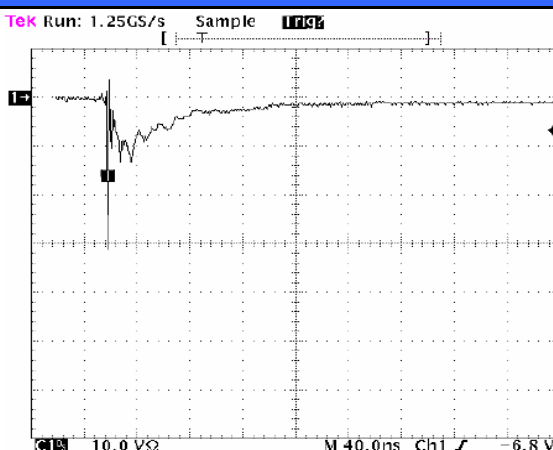
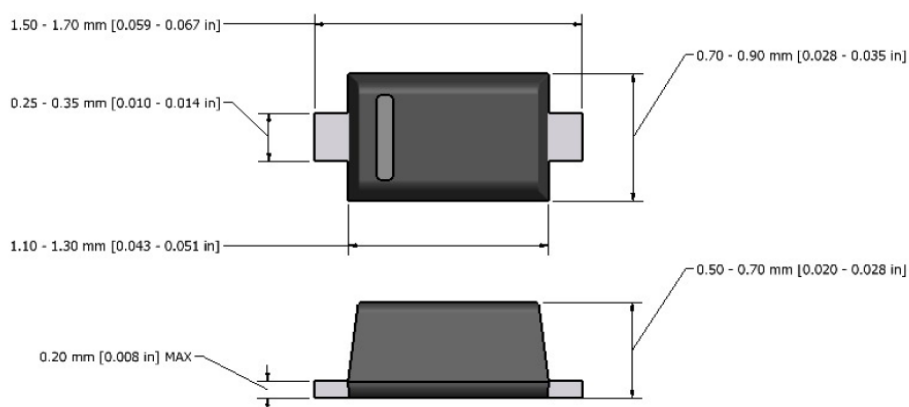


Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV contact per IEC 61000-4-2

SOD-523 PACKAGE OUTLINE DIMENSIONS



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

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