

Transient Voltage Suppressors for ESD protection

FEATURES

 IEC61000-4-2 (ESD) ±8kV (Contact), ±15kV (Air)

IEC61000-4-4 (EFT) 40A (5/50ηs)

• Peak power dissipation: 45W (8/20µs)

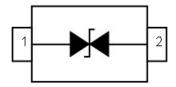
• Protects one I/O line

· Low clamping voltage

Working voltages: 5V

· Low leakage current





MACHANICAL DATA

• SOD-523 package

 Terminals: Tin plated, solderable per MIL-STD-750, method 2026

• Packaging: Tape and Reel

• Reel size: 7 inch

APPLICATIONS

- High Speed Line: USB1.0/2.0, VGA, DVI, SDI,
- Serial and Parallel Ports
- · Notebooks, Desktops, Servers
- Projection TV
- · Cellular handsets and accessories
- Portable instrumentation
- Peripherals



ABSOLUTE MAXIMUM RATING

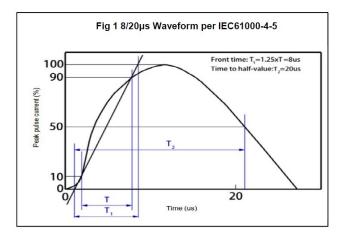
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±8 ±15	kV
P _{PP}	Peak Pulse Power (8/20µs)	45	W
T _{OPT}	Operating Temperature	-40~150	°C
T _{STG}	Storage Temperature	-40~150	°C

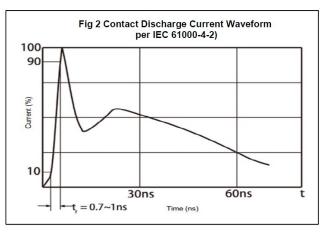
ELECTRICAL CHARACTERISTICS (Tamb=25°C)

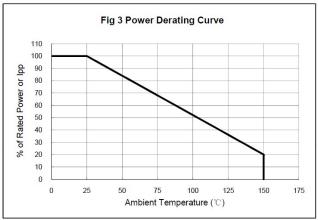
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V_{RWM}	Reverse Working Voltage				5.0	V
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	5.6			V
I _R	Reverse Leakage Current	V _{RWM} = 5V			1.0	μΑ
V _C	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			10.0	V
V _C	Clamping Voltage	$I_{PPmax} = 3A$, $t_p = 8/20 \mu s$			15.0	V
CJ	Junction Capacitance	$V_R = 0V$, $f = 1MHz$			12	pF

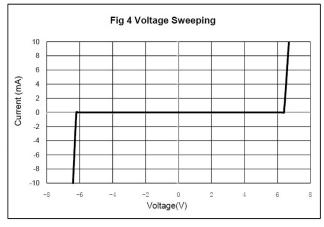


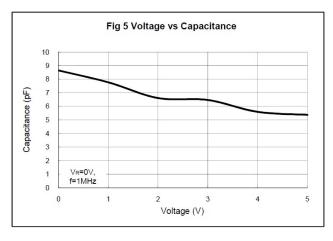
ELECTRICAL CHARACTERISTICS CURVE

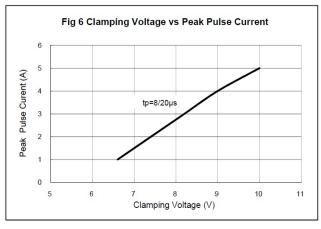






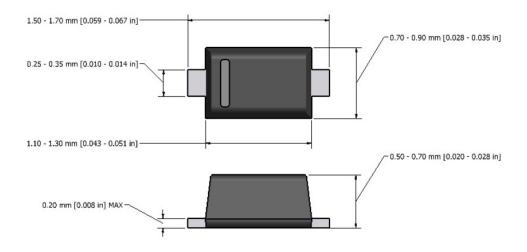








SOD-523 PACKAGE OUTLINE DIMENSIONS



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

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