

### FEATURES

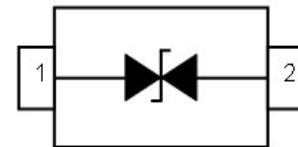
- IEC61000-4-2 (ESD)  $\pm 8\text{kV}$  (Contact),  $\pm 15\text{kV}$  (Air)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- Peak power dissipation: 45W (8/20 $\mu\text{s}$ )
- Protects one I/O line
- Low clamping voltage
- Working voltages : 5V
- Low leakage current



SOD-523

### MACHANICAL DATA

- SOD-523 package
- Terminals: Tin plated, solderable per MIL-STD-750, method 2026
- Packaging: Tape and Reel
- Reel size: 7 inch



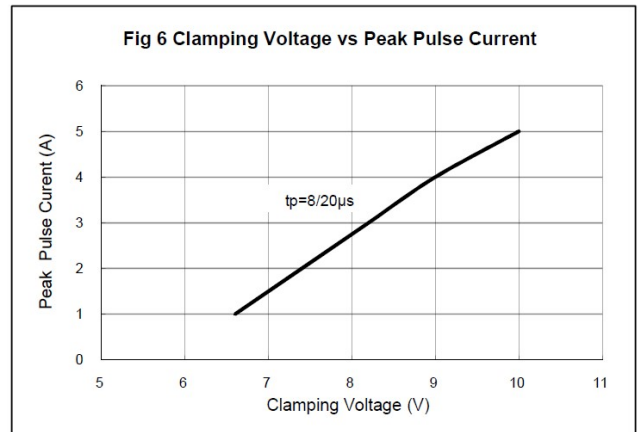
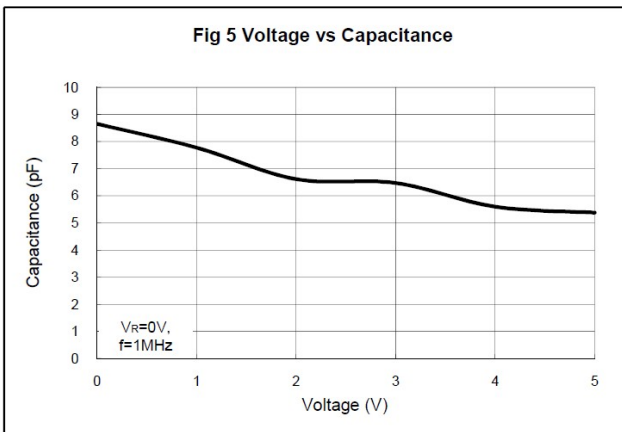
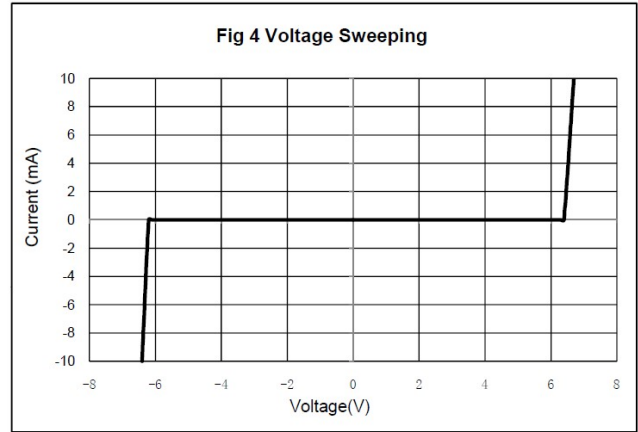
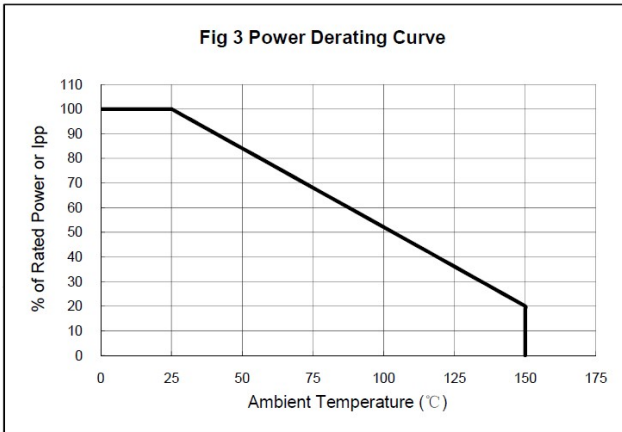
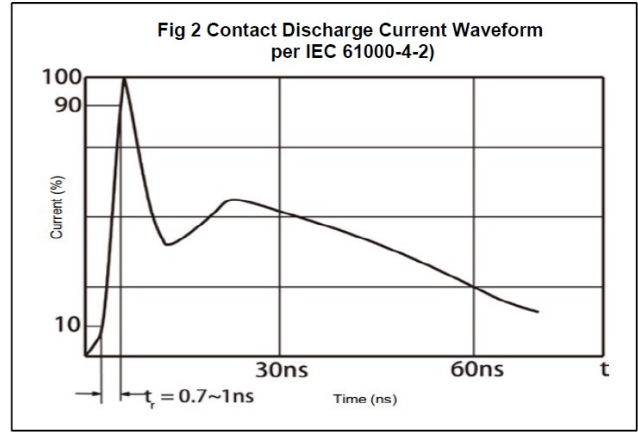
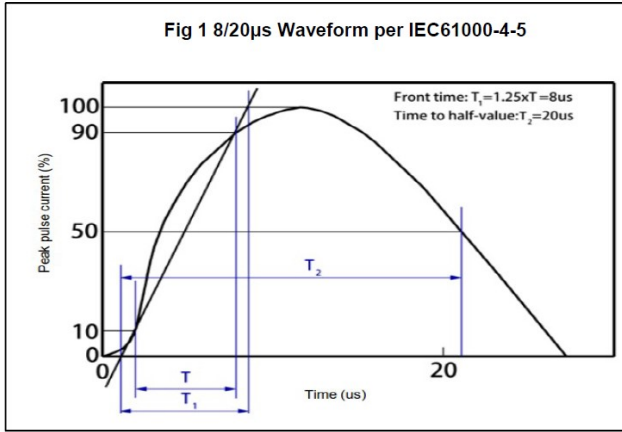
### APPLICATIONS

- 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

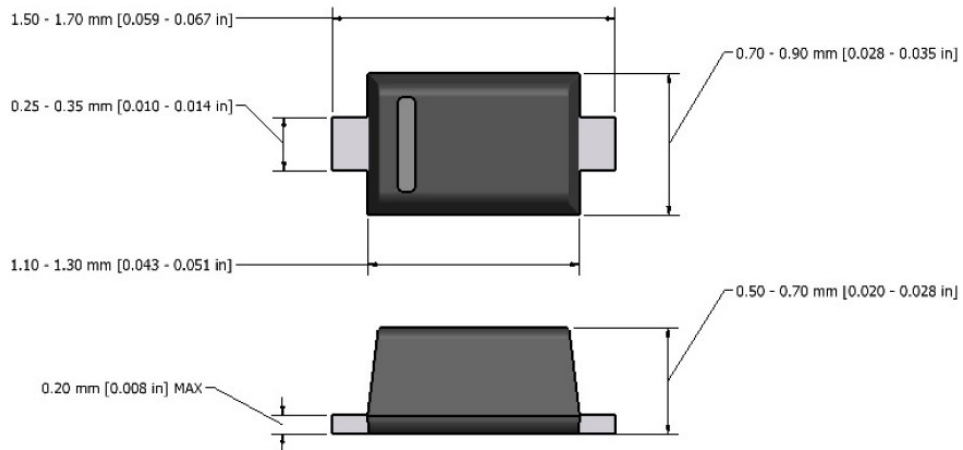
<b>ABSOLUTE MAXIMUM RATING</b>			
<b>Symbol</b>	<b>Parameter</b>	<b>Value</b>	<b>Units</b>
V <sub>ESD</sub>	ESD per IEC 61000-4-2 (Contact)	±8	kV
	ESD per IEC 61000-4-2 (Air)	±15	
P <sub>PP</sub>	Peak Pulse Power (8/20μs)	45	W
T <sub>OPT</sub>	Operating Temperature	-40~150	°C
T <sub>STG</sub>	Storage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

<b>ELECTRICAL CHARACTERISTICS (Tamb=25°C)</b>						
<b>Symbol</b>	<b>Parameter</b>	<b>Test Condition</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Units</b>
V <sub>RWM</sub>	Reverse Working Voltage				5.0	V
V <sub>BR</sub>	Reverse Breakdown Voltage	I <sub>T</sub> = 1mA	5.6			V
I <sub>R</sub>	Reverse Leakage Current	V <sub>RWM</sub> = 5V			1.0	μA
V <sub>C</sub>	Clamping Voltage	I <sub>PP</sub> = 1A, t <sub>p</sub> = 8/20μs			10.0	V
V <sub>C</sub>	Clamping Voltage	I <sub>PPmax</sub> = 3A, t <sub>p</sub> = 8/20μs			15.0	V
C <sub>J</sub>	Junction Capacitance	V <sub>R</sub> = 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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