

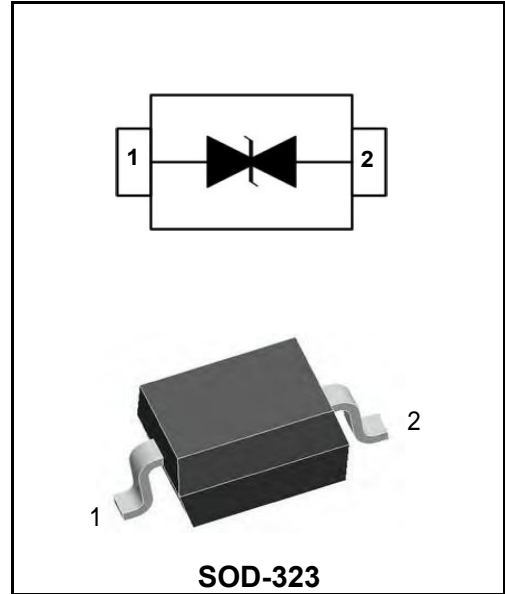
**Ultra Low Capacitance ESD Protectio**

**Features**

- ◆Peak power dissipation: 100W(8/20us)
- ◆Transient protection for high-speed data lines
- ◆IEC61000-4-2 (ESD) ±15kV(air), ±8kV(contact)
- ◆IEC61000-4-4(EFT) 40A(5/50ns)Cable Discharge Event (CDE)
- ◆Protects one data, control line
- ◆Low capacitance: 0.25pF (Typical)
- ◆Low clamping voltage
- ◆Low leakage current
- ◆Meets MSL 1 Requirements

**Application**

- ◆10/100M Ethernet Ports
- ◆WAN/LAN Equipment
- ◆Desktops, Servers and Notebooks
- ◆Cellular Phones
- ◆Switching Systems
- ◆Audio/Video Inputs



**Order Information**

Part Number	Package	Marking	Size (mm)	Delivery Form	Delivery Quantity
ESD3Z3.3CM	SOD-323	2M	2.6X1.3X0.5	7" T&R	3000PCS/Tape

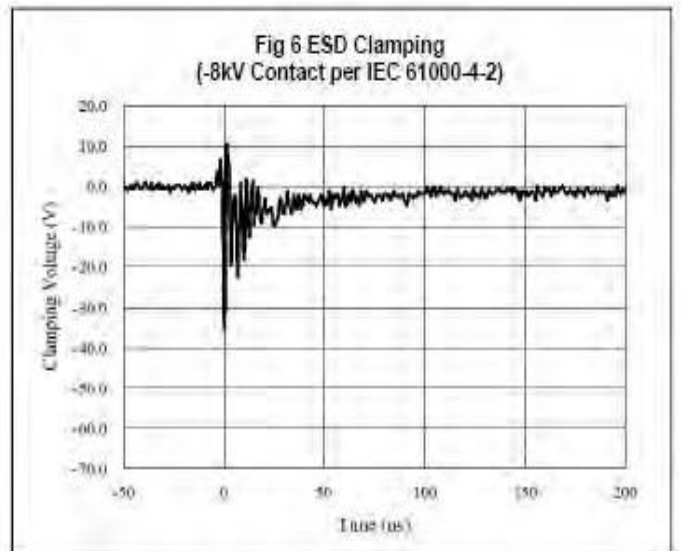
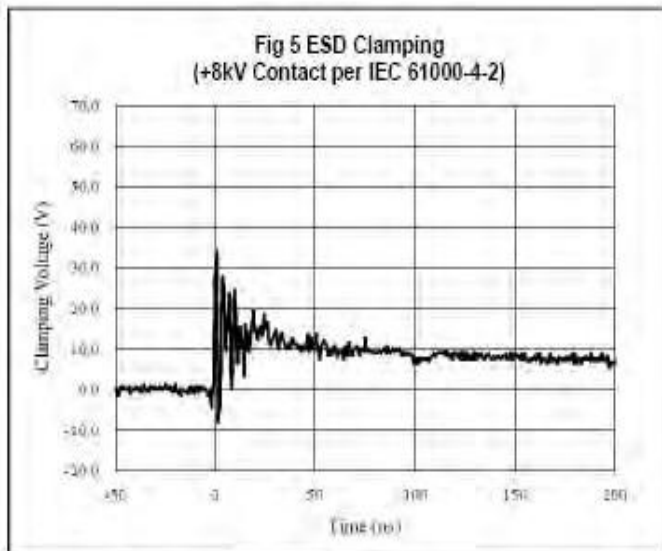
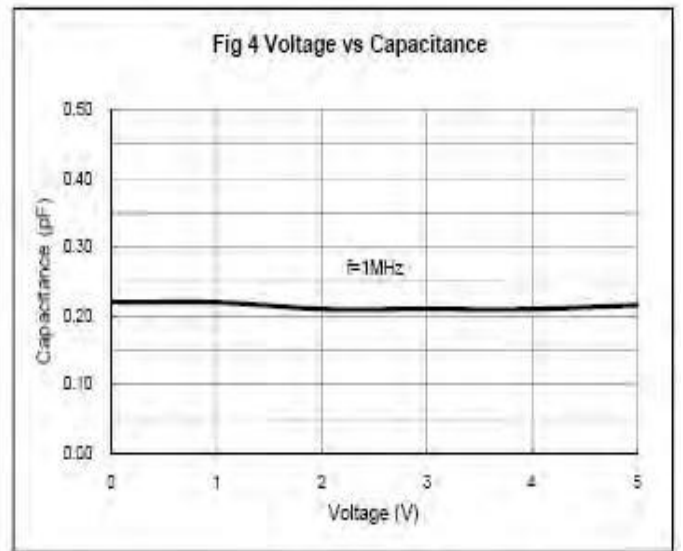
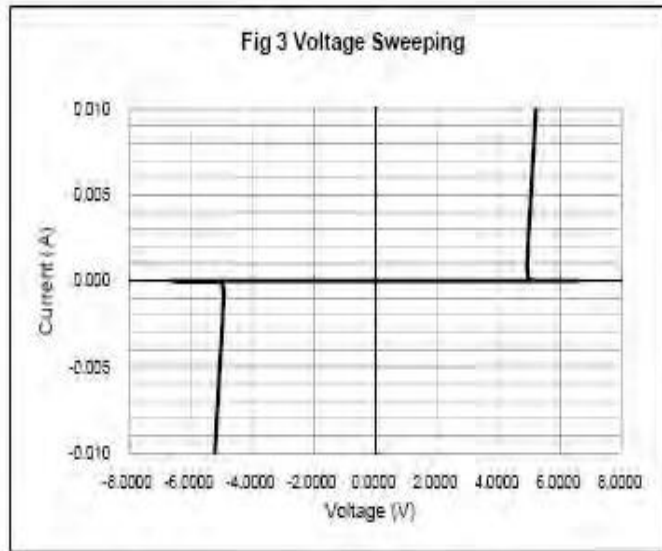
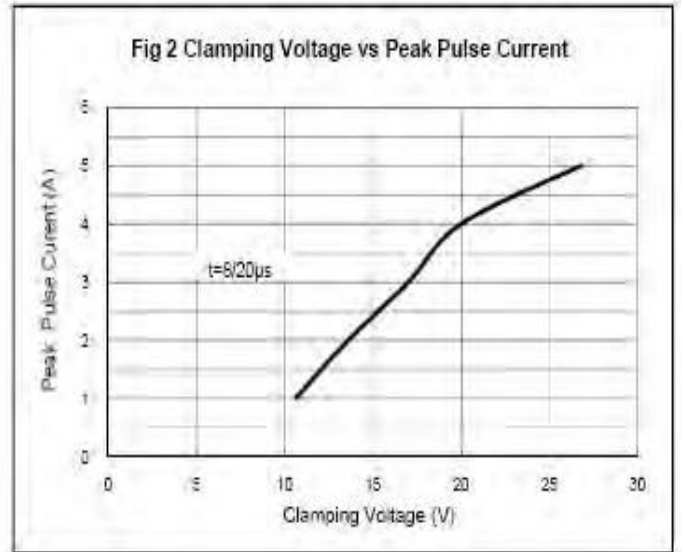
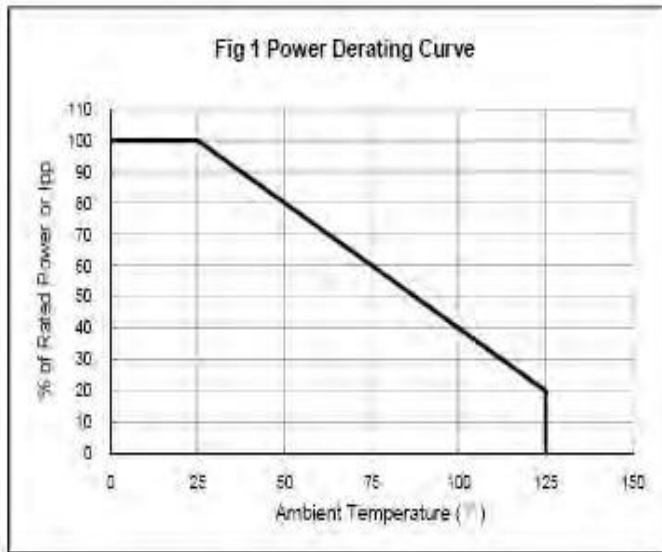
**Limiting Values(TA = 25 °C, unless otherwise specified)**

Symbol	Parameter	Conditions	value	Unit
V <sub>ESD</sub>	ESD per IEC 61000-4-2	Air	± 20	KV
		Contact	± 20	
P <sub>PP</sub>	Peak Pulse Power	tP = 8/20 μs	100	W
T <sub>OPT</sub>	Operating Temperature	-	-55 to+125	°C
T <sub>stg</sub>	Storage Temperature	-	-55 to+150	°C
T <sub>L</sub>	Lead Solder Temperature	Maximum (10 Second Duration)	260(10 sec.)	°C

**Electrical Characteristics(TA = 25 °C unless otherwise specified)**

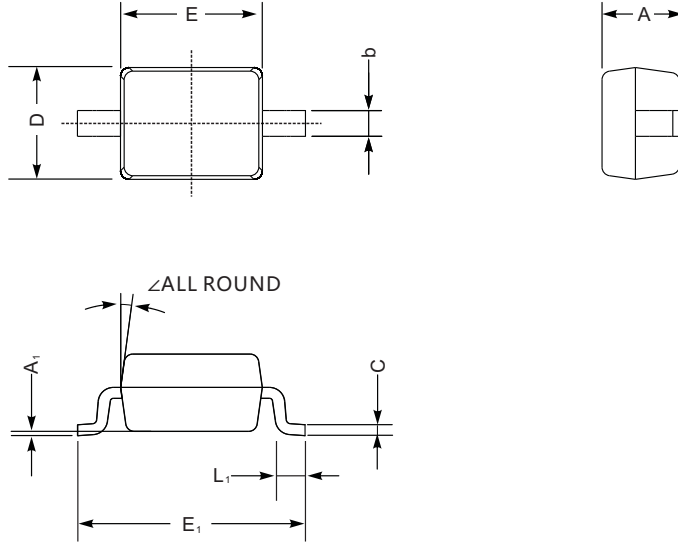
Symbol	Parameter	Conditions	Min	Typ.	Max	Unit
V <sub>RWM</sub>	Reverse Working Voltage		-	-	3.3	V
V <sub>BR</sub>	Reverse Breakdown Voltage	I <sub>T</sub> = 1mA	4.2	-	-	V
I <sub>R</sub>	Reverse Leakage Current	V <sub>RWM</sub> = 3.3 V	-	-	100	nA
V <sub>C</sub>	Clamping Voltage	I <sub>PP</sub> =1 A, tp = 8/20μs	-	-	12	V
V <sub>C</sub>	Clamping Voltage	I <sub>PP</sub> =4 A, tp = 8/20μs	-	-	25	V
C <sub>J</sub>	Junction Capacitance	VR = 0V, f = 1 MHz	-	0.25	0.40	pF

Typical Characteristics



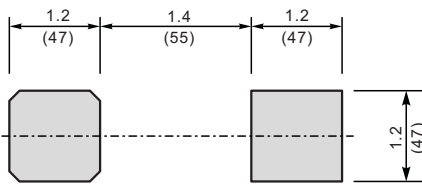
**Package Outline SOD-323**

Plastic surface mounted package; 2 leads



UNIT		A	C	D	E	E <sub>1</sub>	b	L <sub>1</sub>	A <sub>1</sub>	$\angle$
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

**The recommended mounting pad size**



Unit:  $\frac{\text{mm}}{\text{mil}}$

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-323	Tape/Reel, 7" reel	3 000	EIA-481-1