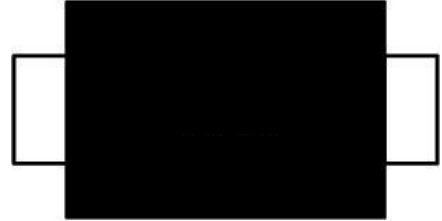


### APPLICATIONS

- Cell Phone Handsets and Accessories.
- Microprocessor based equipment.
- Personal Digital Assistants(PDA's)
- Notebooks Instrumentation.
- Peripherals.
- USB Interface.



**SOD-323**

### MECHANICAL CHARACTERISTICS

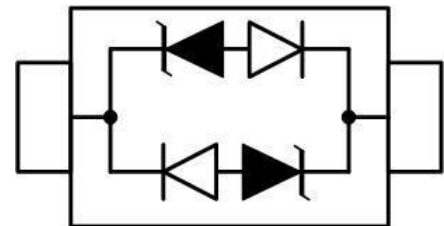
- JEDEC SOD-323 Package.
- Molding Compound Flame mability Rating: UL 94V-O.
- Weight 5 Millgrams (Approximate).
- Quantity Per Reel: 3000pcs.
- Reel Size: 7inch.
- Lead Finish: Lead Free.

### IEC COMPATIBILITY

- IEC61000-4-2(ESD)±15KV(air), ±8KV(contact).
- IEC61000-4-4(EFT) 40A (5/50ns).
- IEC61000-4-5(Lightning) 12A (8/20µs).

### FEATURES

- 350 Watts Peak Pulse Power per Line (tp=8/20µs).
- Protect one I/O lines(bidirectional).
- Low clamping voltage.
- Working voltages: 3V; 5V; 8V; 12V; 15V; 24V
- Low leakage current.



**PIN CONFIGURATION**

**DEVICE CHARACTERISTICS**

<b>MAXIMUM RATINGS (@25°C Unless Otherwise Specified)</b>			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20µs waveform)	P <sub>PP</sub>	350	Watts
Lead Soldering Temperature	T <sub>L</sub>	260(10sec)	°C
Operating Temperature Range	T <sub>J</sub>	-55 to + 175	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 175	°C

<b>ELECTRICAL CHARACTERISTICS PER LINE (@25°C Unless Otherwise Specified)</b>							
PART NUMBER	VRWM (V) (max.)	VB (V) (min.)	IT (mA)	VC @5A (max.)	VC (max.)(@A)	IR (µA) (max.)	CT (pF) (typ)
SB08DLC-B	8.0	8.5	1	13.40	18.5	8	0.4

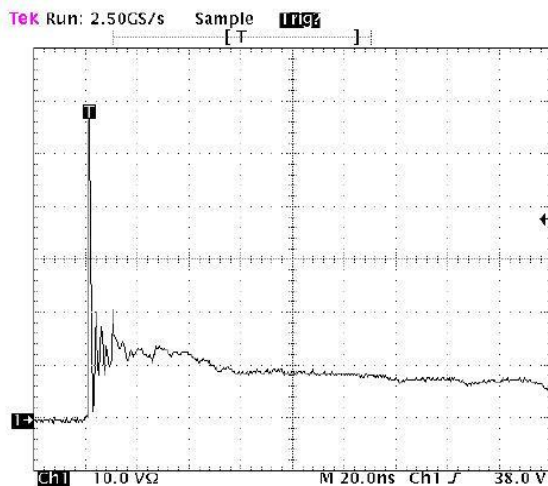


Figure 1. ESD Clamping Voltage Screenshot Positive 8 kV contact per IEC 61000-4-2

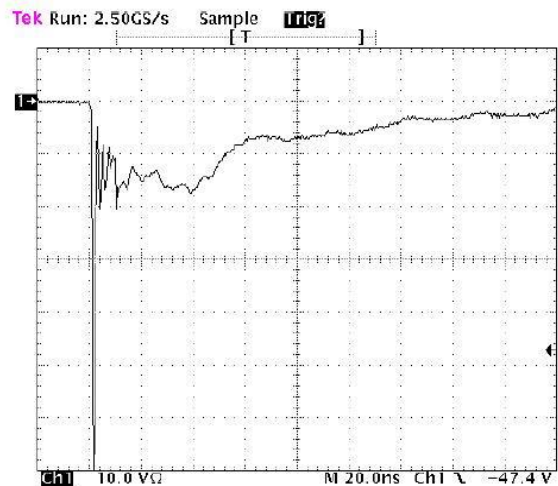
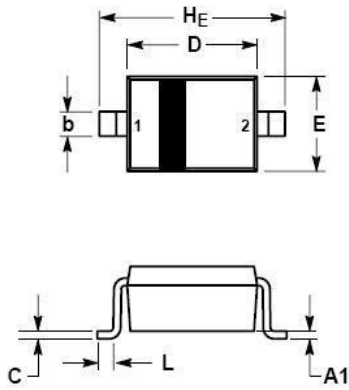


Figure 2. ESD Clamping Voltage Screenshot Negative 8 kV contact per IEC 61000-4-2

**SOD-323 PACKAGE OUTLINE & DIMENSIONS**



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
<b>A</b>	0.80	0.90	1.00	0.031	0.035	0.040
<b>A1</b>	0.00	0.05	0.10	0.000	0.002	0.004
<b>A3</b>	0.15REF			0.006REF		
<b>b</b>	0.25	0.32	0.4	0.010	0.012	0.016
<b>C</b>	0.089	0.12	0.177	0.003	0.005	0.007
<b>D</b>	1.60	1.70	1.80	0.062	0.066	0.070
<b>E</b>	1.15	1.25	1.35	0.045	0.049	0.053
<b>L</b>	0.08			0.003		
<b>HE</b>	2.30	2.50	2.70	0.090	0.098	0.105

**SOLDERING FOOTPRINT**

