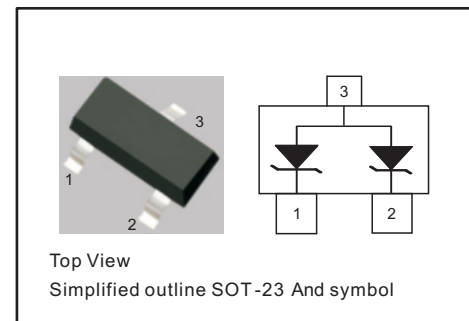


## Plastic-Encapsulate ESD Protection Diodes

### Features

- 350 Watts Peak Pulse Power per (8/20 $\mu$ s)
- IEC61000-4-2 (ESD)  $\pm 15$ kV (air),  $\pm 8$ kV (contact)
- Protects one bidirectional line or two unidirectional lines
- Low clamping voltage
- Low leakage current
- Working voltages : 12V, 15V, 18V , 20V



### Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports
- Peripherals

### Mechanical Characteristics

- Package: SOT-23
- Flammability Rating: UL 94V-0
- High temperature soldering guaranteed:  
260°C/ 10s
- Packaging: Tape and Reel

### Absolute Maximum Ratings And Characteristics ( Ta = 25 °C )

Parameter	Symbol	Value	Unit
Peak Pulse Power(8/20 $\mu$ S)	P <sub>pp</sub>	350	W
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(Contact)	V <sub>ESD</sub>	$\pm 15$ $\pm 8$	kV
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	°C



Characteristics at Ta = 25°C

Type	Marking	Peak Reverse Working Voltage	Reverse Breakdown Voltage	I <sub>r</sub>	Clamping Voltage				Reverse Leakage Current	Junction Capacitance
		V <sub>RWM</sub>	V <sub>BR</sub>		V <sub>c</sub> (@IPP)		V <sub>c</sub> (@IPP)		I <sub>R</sub>	C <sub>J</sub>
		Max ( V )	Min ( V )		Max (V)	A	Max (V)	A	Max (μA)	Max (pF)
ESDU12V0T2	12U	12	13.3	1	19	1	32	11	1	130
ESDU15V0T2	15U	15	16.7	1	24	1	38	10	1	120
ESDU18V0T2	18U	18	20.0	1	29	1	45	9	1	100
ESDU20V0T2	20U	20	22.3	1	35	1	50	8	1	90

Fig.1 Power Derating Curve

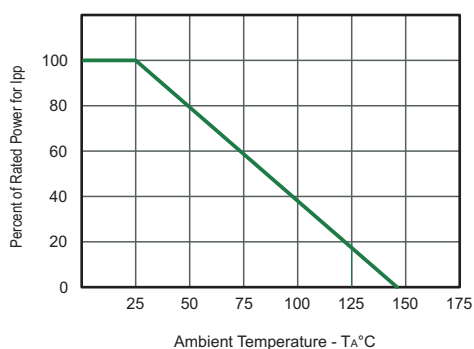


Fig.2 Contact discharge current waveform per IEC61000-4-2

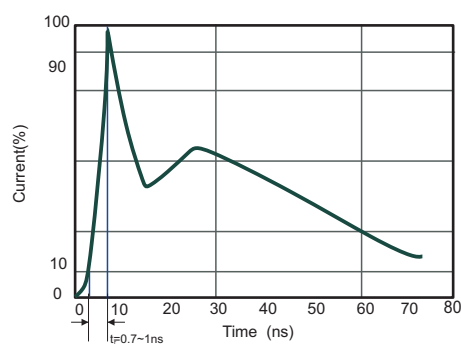
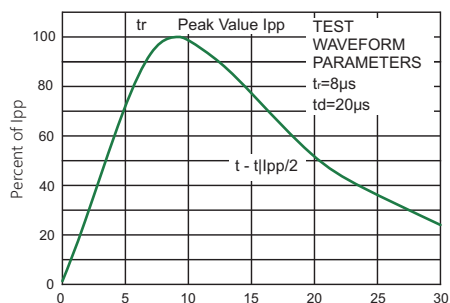
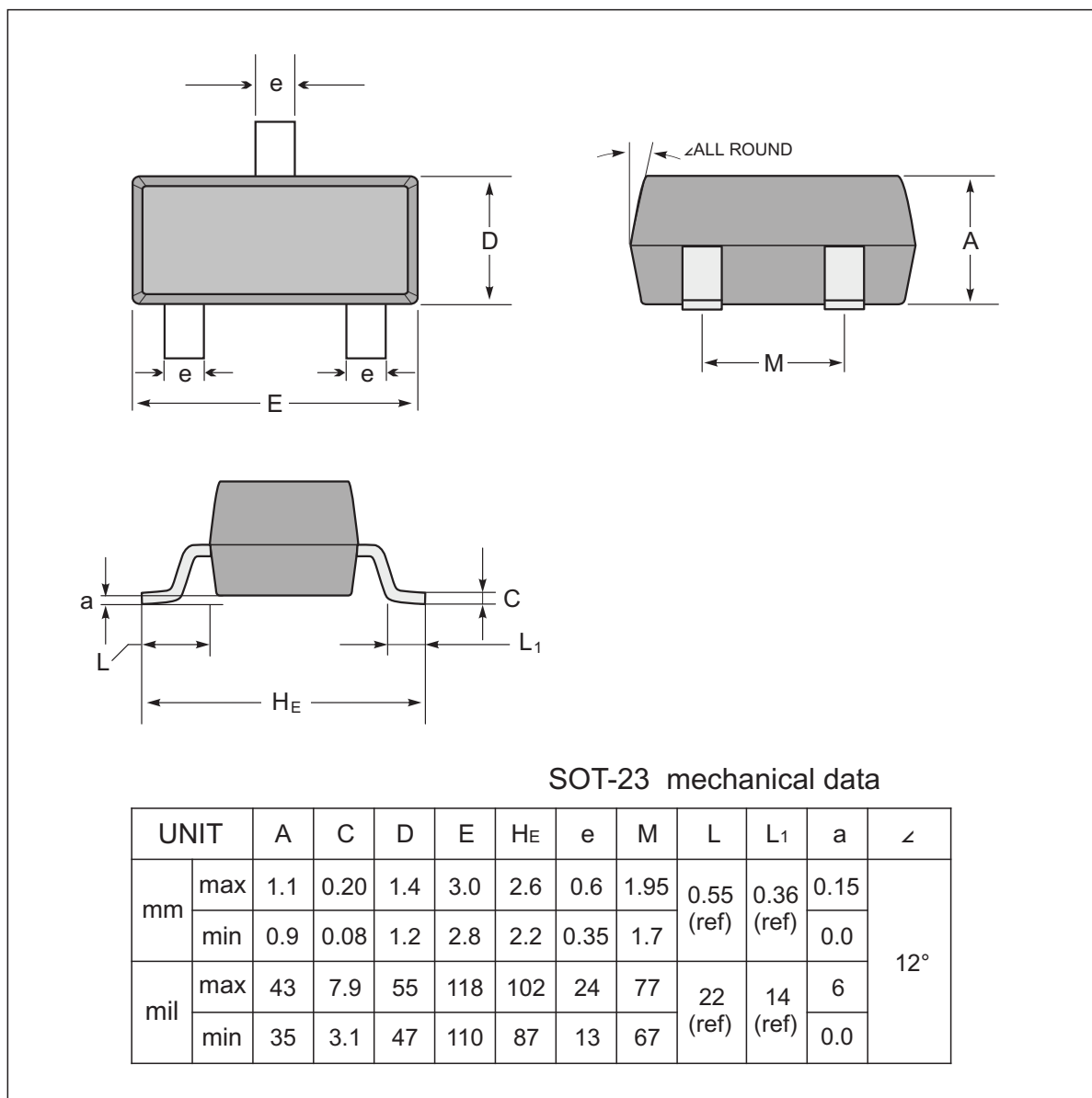


Fig.3 Pulse Waveform





### SOT-23 Package Outline Dimensions



### The recommended mounting pad size

