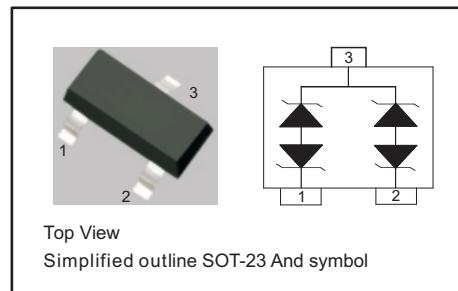




Plastic-Encapsulate ESD Protection Diode

Features

- 250 Watts Peak Pulse Power per (8/20μs)
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- Protects two bidirectional line
- Low clamping voltage
- Low leakage current



Applications

- USB Modules
- HDMI Ports
- LVDS

Mechanical Characteristics

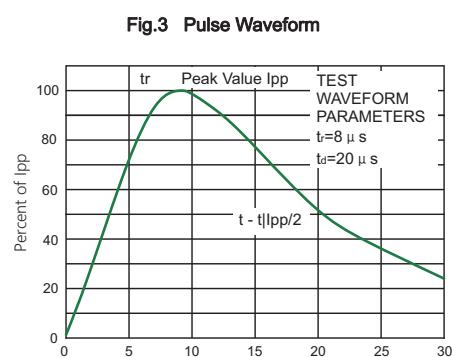
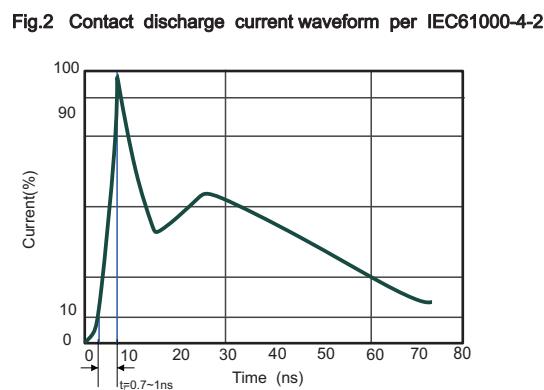
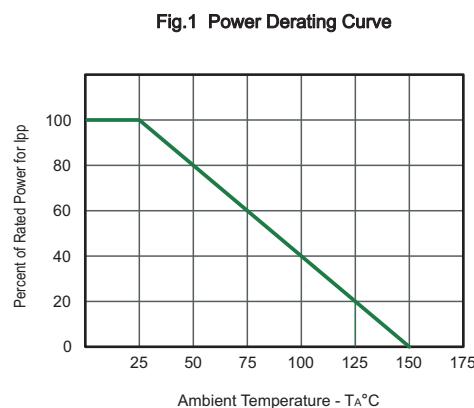
- Package: SOT-23
- Flammability Rating: UL 94V-0
- High temperature soldering guaranteed: 260°C /10s
- Packaging: Tape and Reel

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

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μS)	Ppk	250	W
Peak Pulse Current	Ipp	15	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	VESD	±30 ±30	KV
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	°C

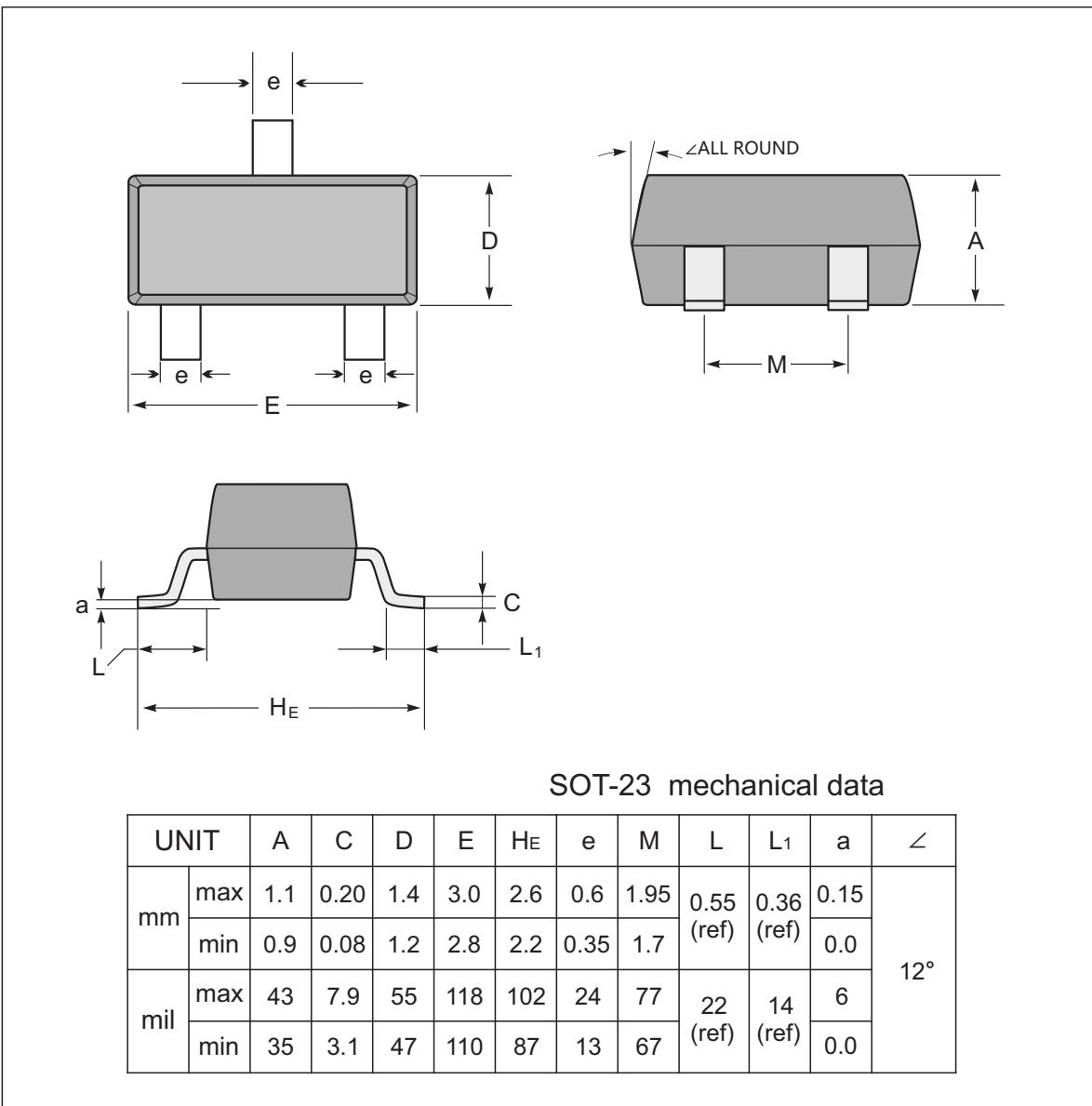
Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse stand-off voltage	VRWM				5	V
Breakdown Voltage	VBR	IT=5mA	6.0		9.0	V
Reverse Leakage Current	IR	V=VRWM,Ta=25°C			1.0	uA
Clamping Voltage	Vc	IPP=15A,tp=8/20us			12	V
Junction Capacitance	Cj	VR=0V,f=1MHz		45		pF

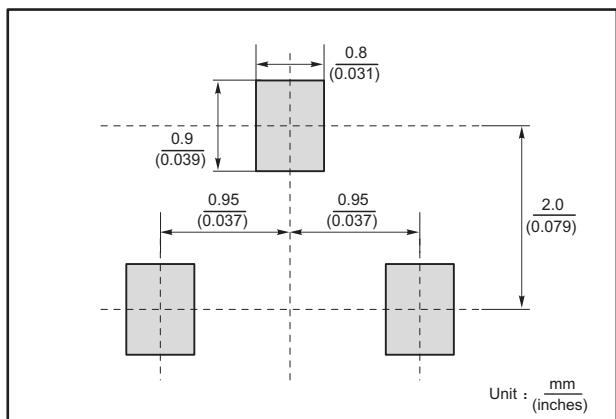




SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
ESDB5V0T2LP	2R1



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