

APPLICATIONS

- ◆ Portable Electronics
- ◆ Cellular Handsets and Accessories
- ◆ Industrial Controls
- ◆ Portable instrumentation
- ◆ Set-Top Box
- ◆ Peripherals

IEC COMPATIBILITY

- ◆ IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact) -- 3.3V~15V
- ◆ IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact) -- 24V~36V
- ◆ IEC61000-4-4 (EFT) 40A (5/50 η s)
- ◆ IEC61000-4-5 (Lightning) 5A (8/20 μ s)

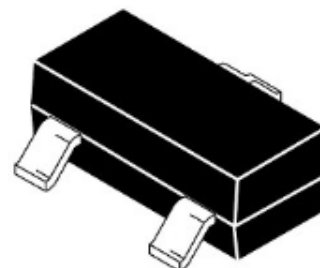
FEATURES

- ◆ 400 Watts Peak Pulse Power per Line (tp=8/20 μ s)
- ◆ Protects two I/O lines
- ◆ Low clamping voltage
- ◆ Working voltages: 3.3V ~ 36V
- ◆ Low leakage current

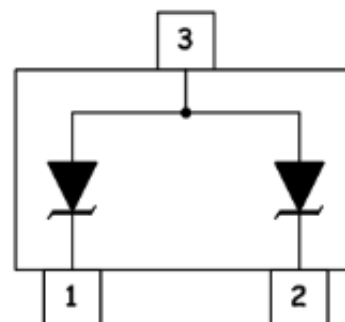
MECHANICAL CHARACTERISTICS

- ◆ JEDEC SOT-23 Package
- ◆ Molding Compound Flammability Rating : UL 94V-O

SOT-23



PIN CONFIGURATION



MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20µs waveform)	P _{PP}	400	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(µA) (max.)	(pF) (typ.)
HSOT03C	B03C	3.0	4.0	1	7.5	8.5	5	5	120
HSOT05C	B05C	5.0	6.0	1	9.8	9.8	5	5	110
HSOT08C	B08C	8.0	8.2	1	13.4	15.0	5	1	70
HSOT12C	B12C	12.0	13.3	1	19.0	17.0	5	1	60
HSOT15C	B15C	15.0	16.7	1	24.0	22.0	5	1	50
HSOT24C	B24C	24.0	26.7	1	43.0	32.0	3	1	25
HSOT36C	B36C	36.0	40.0	1	55.0	55.0	1	1	20

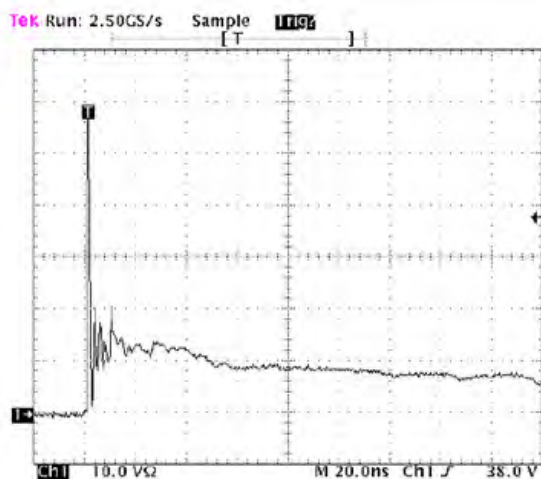


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV contact per IEC 61000-4-2

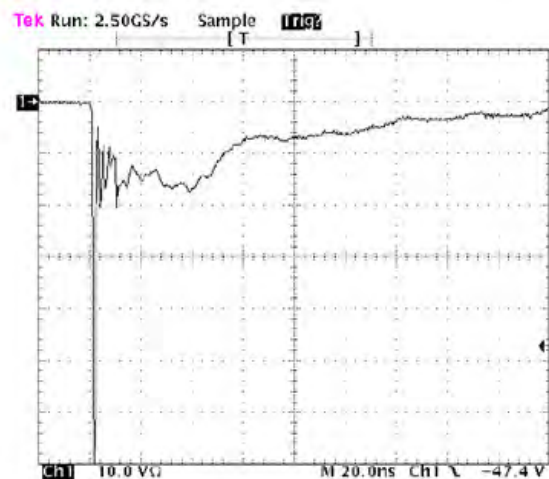
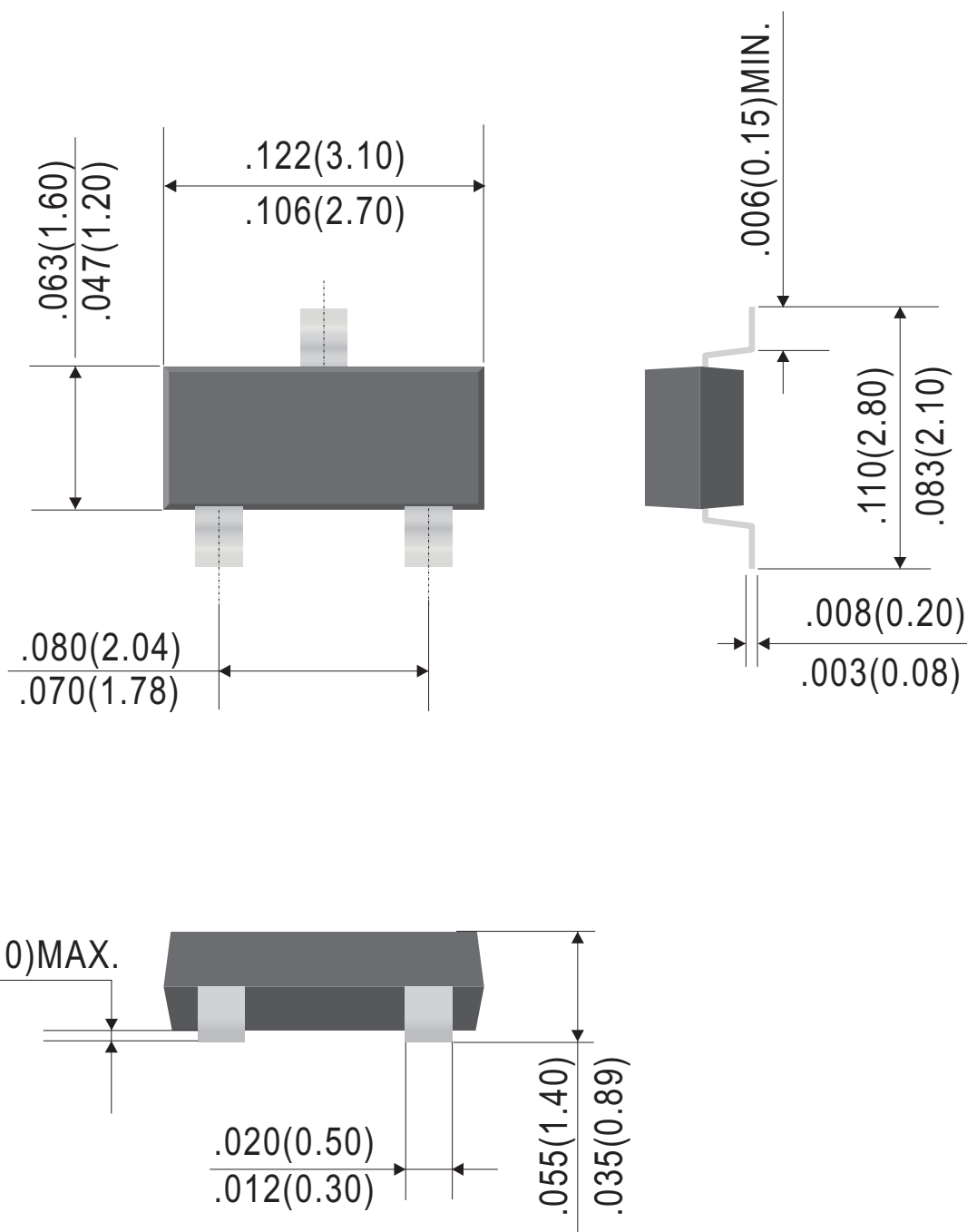


Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV contact per IEC 61000-4-2

Outline Drawing

SOT-23



Dimensions in inches and (millimeters)

Rev.D

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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