

APPLICATIONS

- ✧ RS-232, RS-422 & RS-423 Data Lines.
- ✧ Audio/Video Inputs.
- ✧ Wireless Network Systems.
- ✧ Digit Video Interface (DVI).
- ✧ Medical Sensors.
- ✧ Notebook Computers.

IEC COMPATIBILITY

- ✧ IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 24A (8/20 μs).

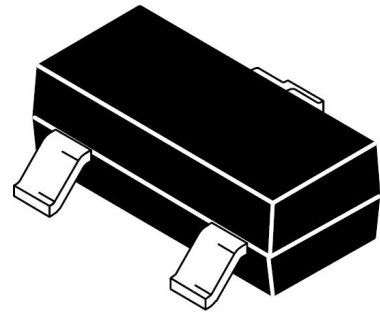
FEATURES

- ✧ 350 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects two bi-directional I/O lines.
- ✧ Low clamping voltage.
- ✧ Working voltages : 3.3V to 36V.
- ✧ Low leakage current.

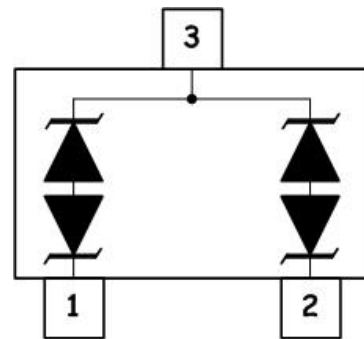
MECHANICAL CHARACTERISTICS

- ✧ SOT-23 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 8.0 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

SOT-23



PIN CONFIGURATION

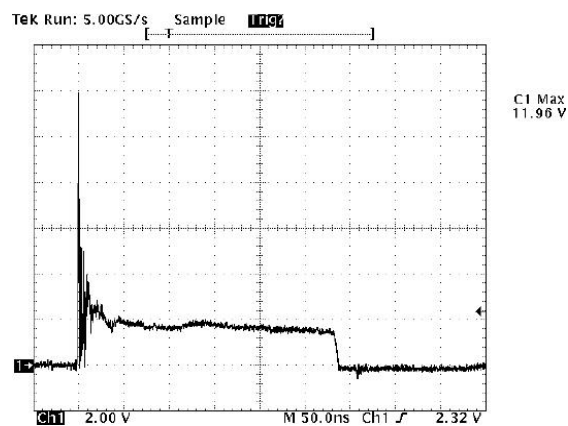
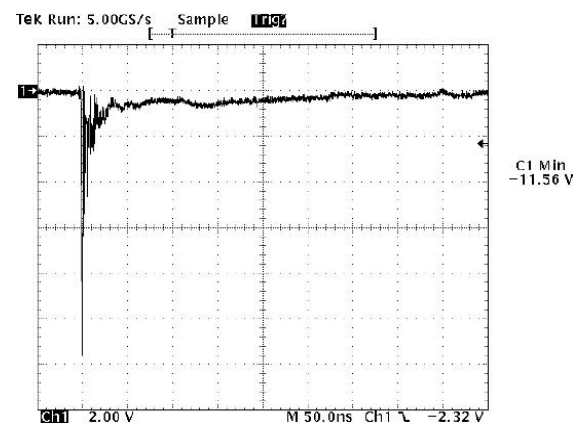


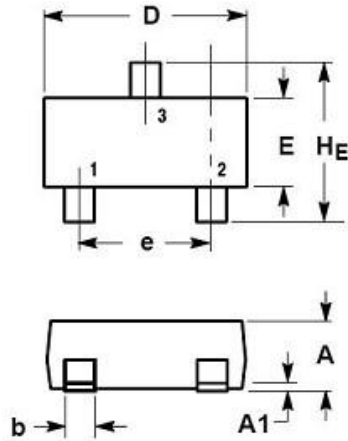
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	350	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

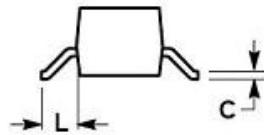
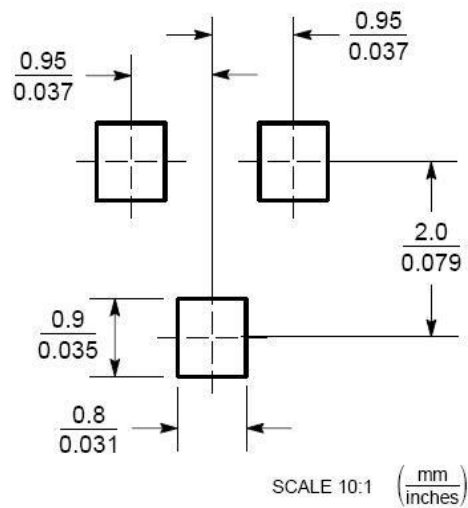
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

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.)
SMC33	C03	3.3	4	1	7	10.5	20	40	220
SMC05	C05	5	6	1	9.8	18	17	10	150
SMC08	C08	8	8.5	1	13.4	24	12	1	75
SMC12	C12	12	13.3	1	19	32	11	1	65
SMC15	C15	15	16.7	1	24	38	10	1	60
SMC18	C18	18	20	1	29	45	9	1	55
SMC24	C24	24	26.7	1	43	52	7	1	40
SMC36	C36	36	40	1	60	75	5	1	15

ESD Clamping
(8kV Contact per IEC 61000-4-2)

ESD Clamping
(-8kV Contact per IEC 61000-4-2)


SOT-23 PACKAGE OUTLINE & DIMENSIONS


DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1.00	1.11	0.035	0.040	0.044
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.37	0.44	0.50	0.015	0.018	0.020
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
e	1.78	1.90	2.04	0.070	0.075	0.081
L	0.35	0.54	0.69	0.014	0.021	0.029
HE	2.10	2.40	2.64	0.083	0.094	0.104


*** SOLDERING FOOTPRINT**


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For additional information, please contact your local Sales Representative.

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