

APPLICATIONS

- ✧ Cell Phone Handsets and Accessories.
- ✧ Microprocessor based equipment.
- ✧ Personal Digital Assistants (PDA's).
- ✧ Notebooks, Desktops, and Servers.
- ✧ Portable Instrumentation.
- ✧ Peripherals.
- ✧ Pagers.

IEC COMPATIBILITY

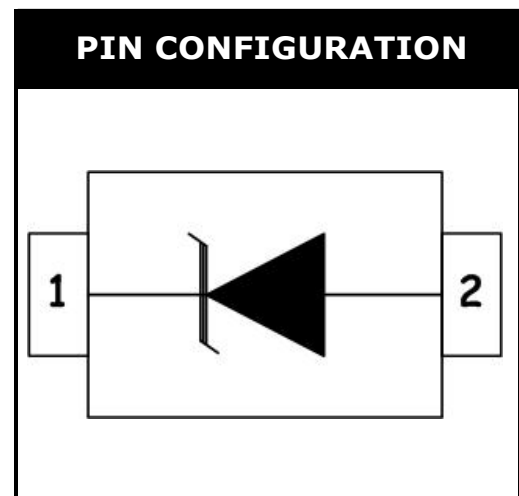
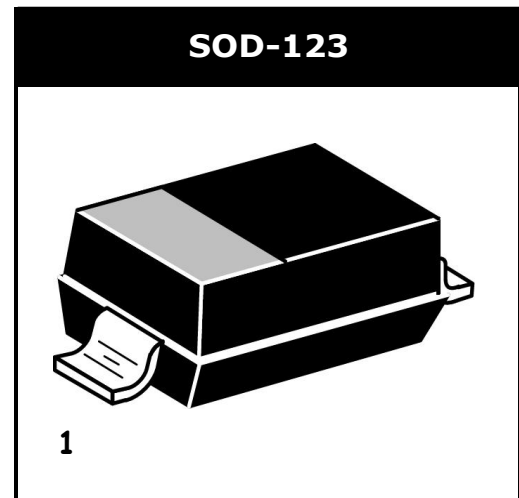
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

FEATURES

- ✧ 400 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects one I/O or power line.
- ✧ Low clamping voltage.
- ✧ Working voltages: 3.3V ~ 36V.
- ✧ Low leakage current.

MECHANICAL CHARACTERISTICS

- ✧ SOD-123 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 12.0 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Finish : Free.

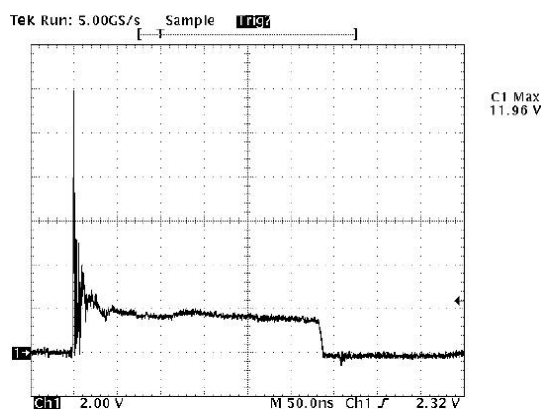
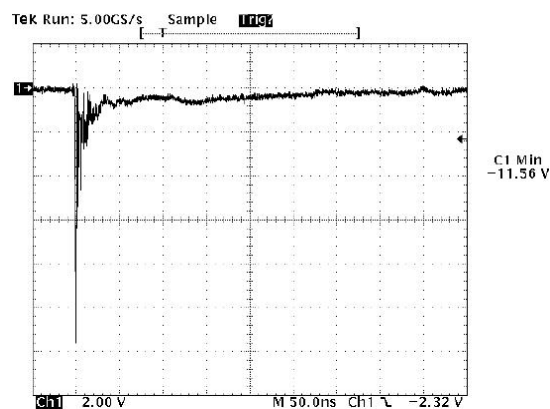


DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

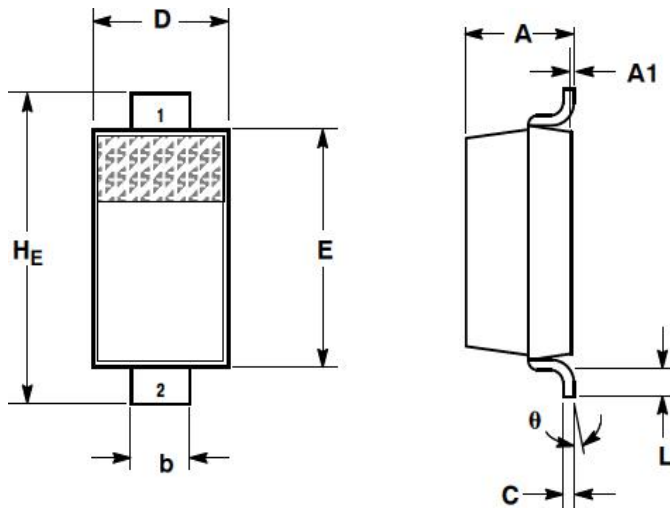
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	400	Watts
LSoldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

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) (max.)
SDA0301	TAS	3	4	1	7	17	25	200	450
SDA0501	T1S	5	6	1	9.8	20	24	10	200
SDA0801	TBS	8	8.5	1	13.4	25	23	5	100
SDA1201	T4S	12	13.3	1	19	28	22	1	75
SDA1501	T5S	15	16.7	1	24	33	18	1	68
SDA1801	TCS	18	20	1	29	45	14	1	57
SDA2401	T6S	24	26.7	1	43	50	12	1	50
SDA3601	TDS	36	40	1	60	69	7	1	40

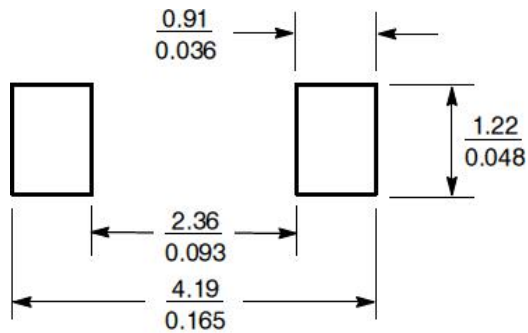
**ESD Clamping
(8kV Contact per IEC 61000-4-2)**

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


SOD-123 PACKAGE OUTLINE & DIMENSIONS



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.94	1.17	1.35	0.037	0.046	0.053
A1	0.00	0.05	0.10	0.000	0.002	0.004
b	0.51	0.61	0.71	0.020	0.024	0.028
c	---	---	0.15	---	---	0.006
D	1.40	1.60	1.80	0.055	0.063	0.071
E	2.54	2.69	2.84	0.100	0.106	0.112
H _E	3.56	3.68	3.86	0.140	0.145	0.152
L	0.25	---	---	0.010	---	---
θ	0°	---	10°	0°	---	10°

*** SOLDERING FOOTPRINT**



SCALE 10:1 (mm/inches)

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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