

APPLICATIONS

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

IEC COMPATIBILITY

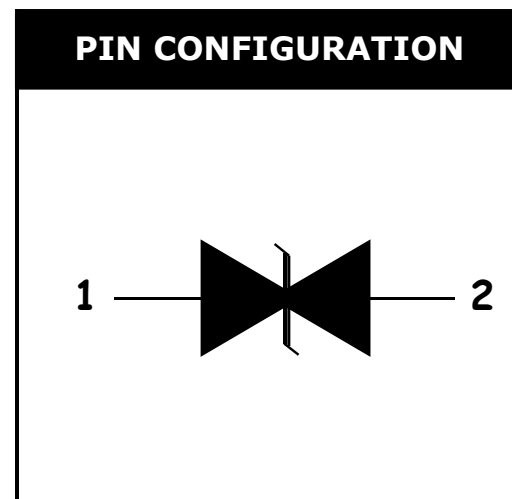
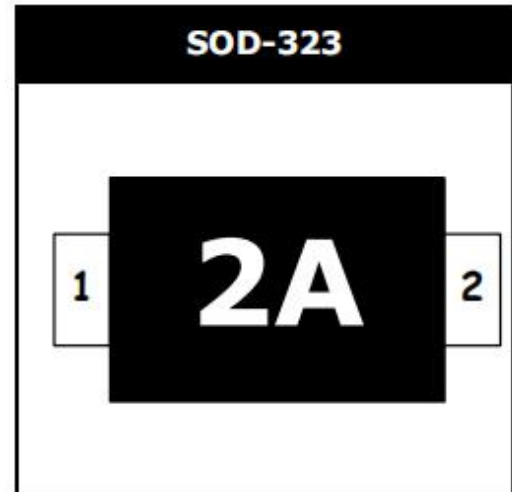
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

FEATURES

- ✧ 320 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 ~ 48V.
- ✧ Low leakage current.

MECHANICAL CHARACTERISTICS

- ✧ SOD-323 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 5 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.



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) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C (max.) (@A)		I _R (μA) (max.)	C _T (pF) (max.)
SD03C	2A	3.3	4	1	7	16	25	200	350
SD05C	CL	5	6	1	9.8	17	24	10	200
SD08C	2C	8	8.5	1	13.4	20	18	5	120
SD12C	12C	12	13.3	1	19	25	13	1	110
SD15C	2J	15	16.7	1	24	30	6	1	100
SD18C	2K	18	19	1	28	35	8	1	90
SD24C	2H	24	26.7	1	43	52	6	1	75
SD36C	2N	36	40	1	60	75	4	1	35
SD48C	2P	48	50	1	65	85	3	1	25

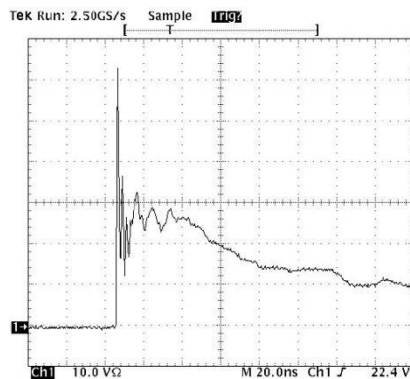


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV Contact per IEC61000-4-2

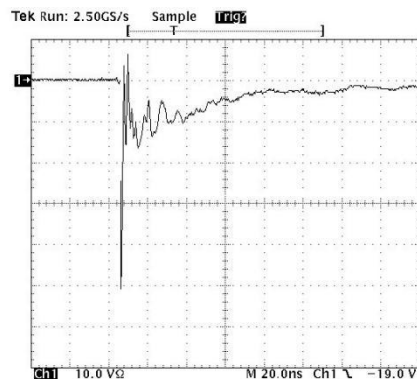
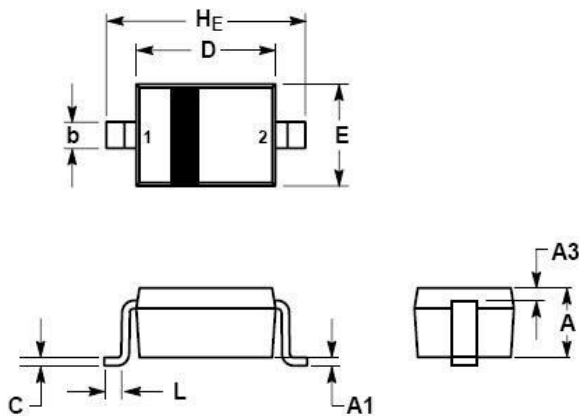


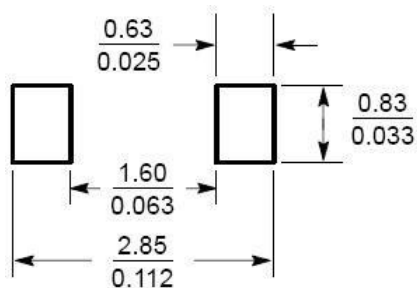
Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV Contact per IEC61000-4-2

SOD-323 PACKAGE OUTLINE & DIMENSIONS



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.90	1.00	0.031	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3	0.15 REF			0.006 REF		
b	0.25	0.32	0.4	0.010	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.60	1.70	1.80	0.062	0.066	0.070
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
HE	2.30	2.50	2.70	0.090	0.098	0.105

*** SOLDERING FOOTPRINT**



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

For additional information, please contact your local Sales Representative.

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