

## APPLICATIONS

- ✧ Ethernet 10/100/1000 Base T.
- ✧ Microprocessor based equipment.
- ✧ Personal Digital Assistants (PDA's).
- ✧ Notebooks, Desktops, and Servers.
- ✧ Portable Instrumentation.
- ✧ Peripherals.
- ✧ USB Interface.

## IEC COMPATIBILITY

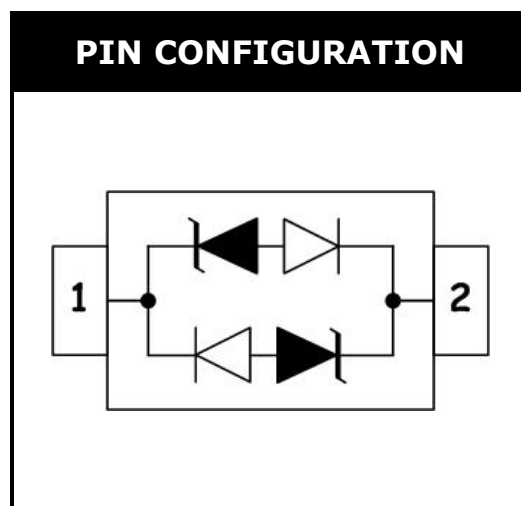
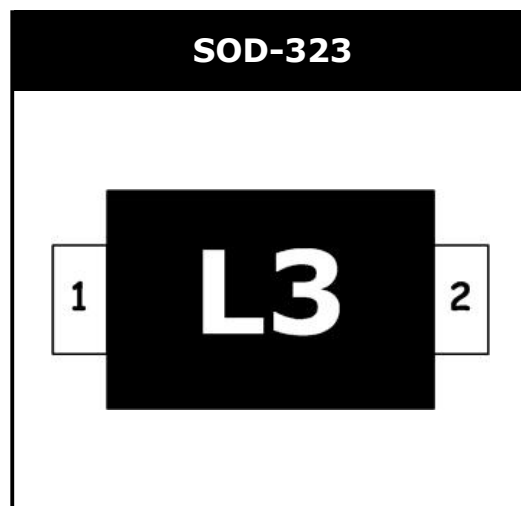
- ✧ IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

## FEATURES

- ✧ 350 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ ).
- ✧ Protects one I/O line (bidirectional).
- ✧ Low clamping voltage.
- ✧ Working voltages: 3.3V, 5V, 8V, 12V, 15V and 24V.
- ✧ Low leakage current.

## MECHANICAL CHARACTERISTICS

- ✧ JEDEC 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.

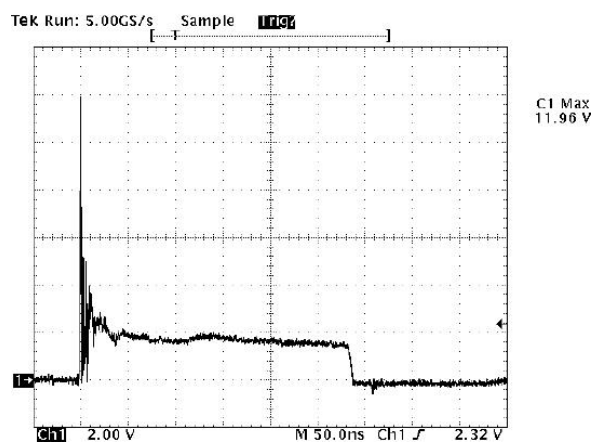


**DEVICE CHARACTERISTICS**

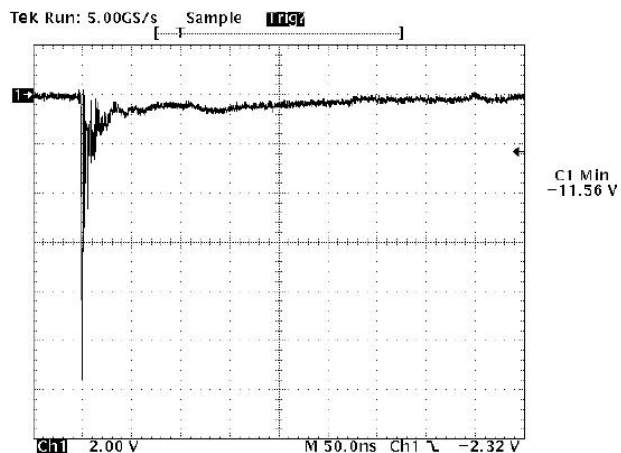
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P <sub>pp</sub>	350	Watts
Lead Soldering Temperature	T <sub>L</sub>	260 (10 sec.)	°C
Operating Temperature Range	T <sub>J</sub>	-55 ~ 150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ 150	°C

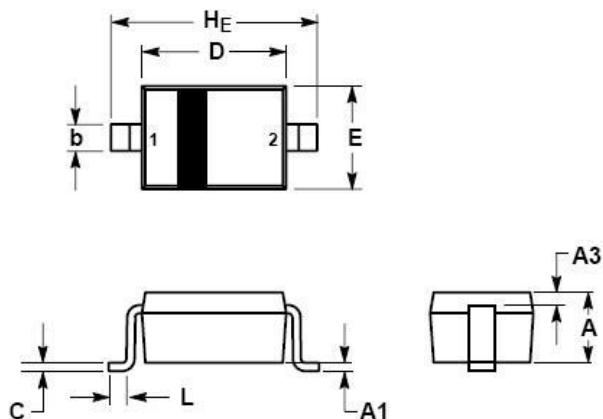
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)								
PART NUMBER	DEVICE MARKING	V <sub>RWM</sub>	V <sub>B</sub>	I <sub>T</sub>	V <sub>C</sub>		I <sub>R</sub>	C <sub>T</sub>
		(V) (max.)	(V) (min.)	(mA)	(max.)	@A	(μA) (max.)	(pF) (max.)
LC3301CW	L3	3.0	4.0	1	15.0	17	20	3
LC0501CW	L5	5.0	6.0	1	18.5	12	5	3
LC0801CW	L8	8.0	8.5	1	22.5	12	1	3
LC1201CW	EC	12.0	13.3	1	28.3	8	1	3
LC1501CW	DC	15	16.7	1	32.3	6	1	3
LC2401CW	LD	24.0	26.7	1	56.5	5	1	3

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

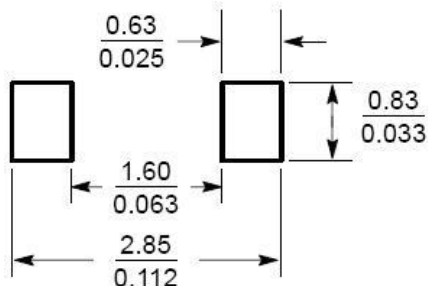


**ESD Clamping  
(-8kV Contact per IEC 61000-4-2)**



**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.

©Copyright 2016, jksemi