

## DESCRIPTION

The SESRV3304 is a TVS protection array that features low capacitance. This device can be used in such as SD cards, SMART phones, Ethernet and other computer interfaces. Designed for ESD protection, the SESRV3304 can clamp the effects of electrical fast transients on the power bus.

This device is available in the space-saving SOT-23-6 package configuration, which minimizes lead inductance to prevent overshoot voltages during high ESD current events. The SESRV3304 meets the IEC-61000-4-2, 61000-4-2 and 61000-4-5 requirements.



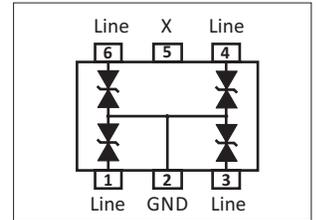
**SOT-23-6 PACKAGE**

## FEATURES

- > 300 Watts Peak Pulse Power per Line (tp=8/20μs)
- > Protects Four Bidirectional I/O lines
- > Low clamping voltage
- > Working voltages : 3.3V
- > Low leakage current

## APPLICATIONS

- > Ethernet Interface
- > Switchin Systems
- > Access Equipment
- > Central Office Equipment
- > Customer Premise Equipment
- > Microcontroller Input Protection



**PIN CONFIGURATIONS**

## IEC COMPATIBILITY

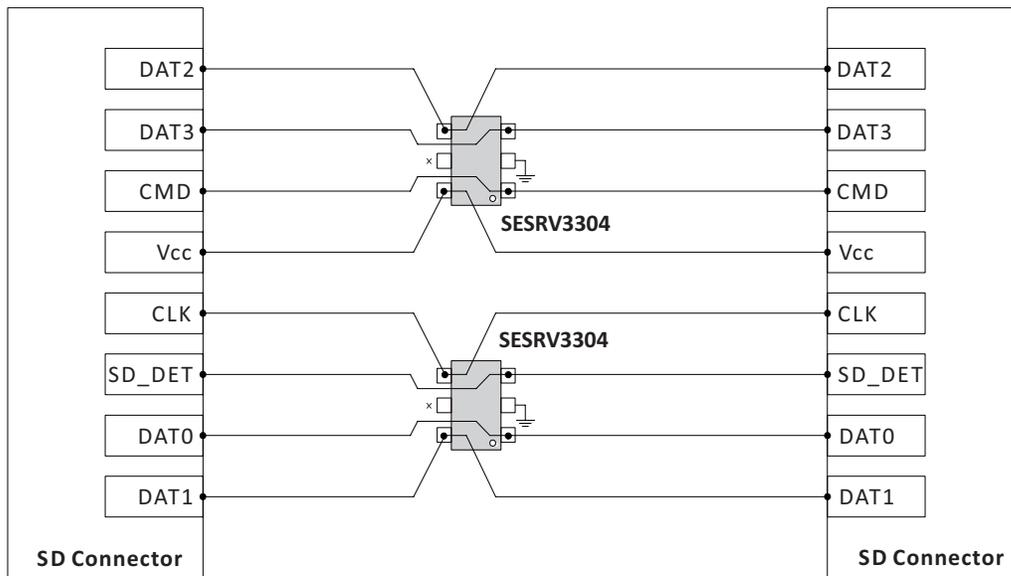
- > IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- > IEC61000-4-4 (EFT) 40A (5/50ns)
- > IEC61000-4-5 (LIGHTING) 15A (8/20μs)

## TYPICAL DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C UNLESS OTHERWISE SPECIFIED			
PARAMETER	SYMBOL	VALUE	UNIT
Peak Pulse Power (tp=8/20μs waveform)	PPP	300	Watts
Lead Soldering Temperature	TL	260(10 sec.)	°C
Operating Temperature Range	TJ	-55~150	°C
Storage Temperature Range	TSTG	-55~150	°C

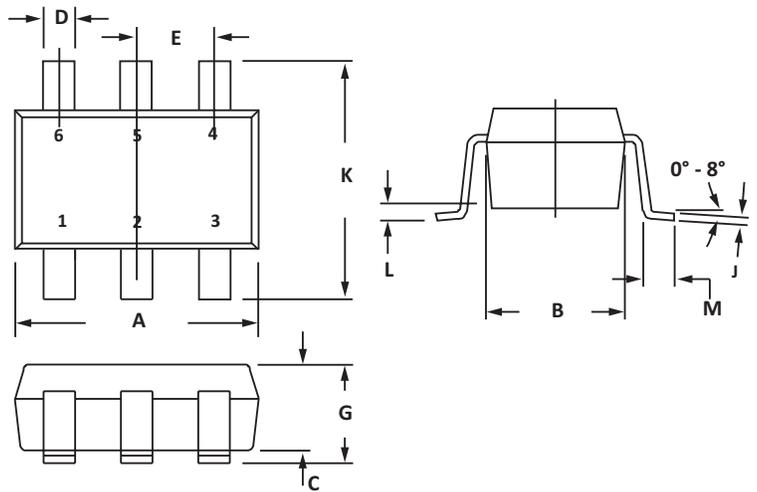
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C UNLESS OTHERWISE SPECIFIED										
PART NUMBER	DEVICE MARKING	IT (mA)	VRWM (V) Max.	VB (V) Min.	Vc @1A Max.	Vc		Ir (uA) Max.	CT (pF) Max.	
						Max.	@A			
SESRV3304	LA3	1	3.3	Line/GND	3.5	6.3	15	13	0.1	16
				Line/Line	6.0	9.0	20	15	0.1	8

APPLICATION EXAMPLE

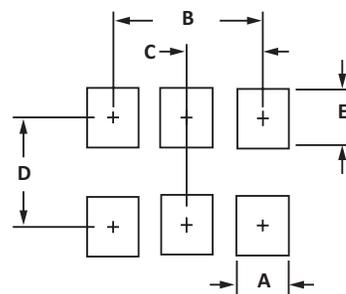


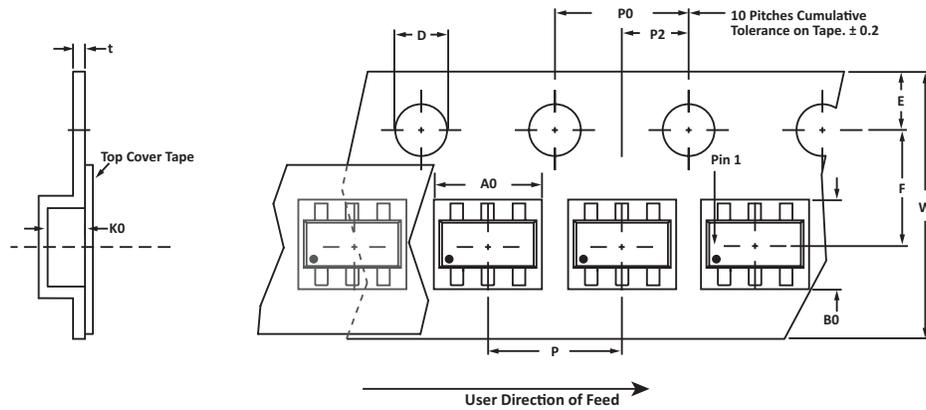
SOT-23-6 PACKAGE INFORMATION

OUTLINE DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.80	3.05	0.110	0.120
B	1.50	1.75	0.059	0.070
C	0.90	1.30	0.036	0.051
D	0.30	0.40	0.012	0.016
E	0.85	1.05	0.033	0.040
G	0.90	1.45	0.036	0.057
J	0.09	0.20	0.003	0.008
K	2.60	3.00	0.102	0.118
L	0.0	0.15	0.0	0.006
M	0.30	0.60	0.012	0.024



PAD LAYOUT DIMENSIONS		
DIM	MILLIMETERS	INCHES
	NOMINAL	NOMINAL
A	0.70	0.028
B	1.90	0.074
C	0.95	0.037
D	2.40	0.094
E	1.00	0.039



**TAPE AND REEL**

**SPECIFICATIONS**

REEL DIA.	TAPE WIDTH	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	3.20 ± 0.10	3.20 ± 0.10	1.65 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25

**NOTES**

1. Dimensions are in millimeters.
2. Surface mount product is taped and reeled in accordance with EIA-481.
3. Suffix - T7 = 7" Reel - 3,000 pieces per 8mm tape.

**ORDERING INFORMATION**

BASE PART NUMBER	LEAD FREE SUFFIX	TAPE SUFFIX	QTY/REEL	REEL SIZE	TUBE QTY
SESRV3304	-LF	-T7	3,000	7"	n/a

This device is only available in a Lead-Free configuration.

## CONTACT US

### Headquarters

A Building Caohejing I&E Park Pujiang Minhang Shanghai  
China

### Hotline

400-021-5756

### Web

<http://www.semiware.com.cn>

### By Telephone

General: 86-21-3463-7173

Sales: 86-21-3463-7172-8826

Customer Service: 86-21-3463-7173-8810

Technical Support: 86-21-3463-7173-8811

### By Email

Sales: [sales17@semiware.com.cn](mailto:sales17@semiware.com.cn)

Customer Service: [sales08@semiware.com.cn](mailto:sales08@semiware.com.cn)

Technical Support: [fae03@semiware.com.cn](mailto:fae03@semiware.com.cn)

### By Fax

General: 86-21-3965-0654

Sales: 86-21-3463-7458

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