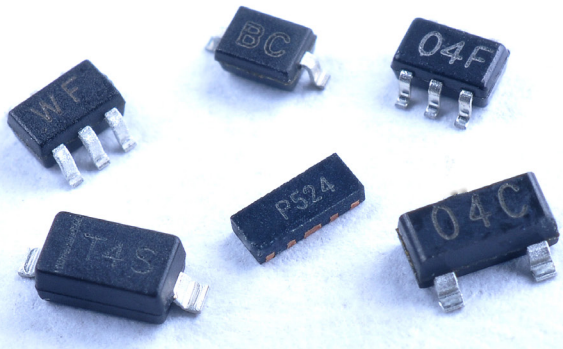
RUILON
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TVS/ESD Arrays

RLSD32AxxxLC Series

361° Circuit Protection System

Specifications are subject to change without notice.

Please refer to http://www.ruilon.com for current information.

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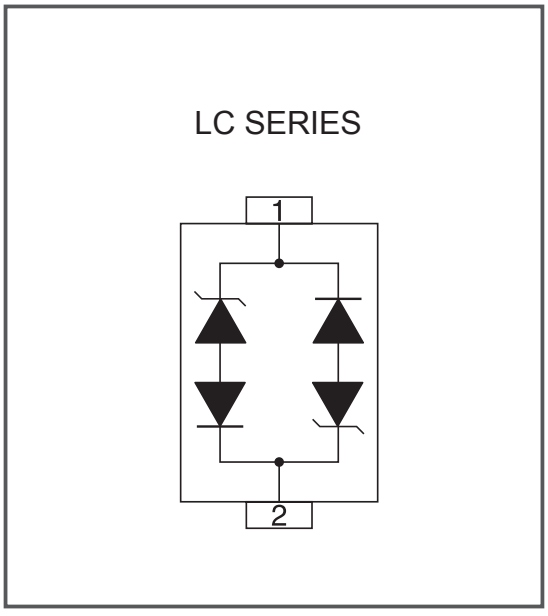
TVS/ESD Arrays - RLSD32AxxxLC Series

Features

- 350 Watts peak pulse power (tp = 8/20μs)
- Transient protection for data lines to
  IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
  IEC 61000-4-4 (EFT) 40A (5/50ns)
  IEC 61000-4-5 (Lightning) 24A (8/20μs)
- Small package for use in portable electronics
- Suitable replacement for MLV's in ESD protection applications
- Protects one I/O or power line
- Low clamping voltage
- Working voltages: 5V,8V, 12V, 15V, 18V,24V,36V
- Low leakage current
- Solid-state silicon avalanche technology



Pinout and Functional Block Diagram



Mechanical Characteristics

- EIAJ SOD-323 package
- Molding compound flammability rating: UL 94V-0
- Marking :
- Packaging : Tape and Reel per EIA 481

Applications

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

Life Support Note

- Not Intended for Use in Life Support or Life Saving Applications
- The products shown herein are not designed for use in life sustaining or life saving applications unless otherwise expressly indicated

TVS/ESD Arrays - RLSD32AxxxLC Series

Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (tp =8/20μs)	PPP	350	Watts
ESD voltage (Contact discharge)	VESD	±8	Kv
ESD voltage (Air discharge)	VESD	±15	Kv
Lead soldering temperature	TL	260	°C
Storage & operating temperature range	TSTG ,TJ	-55 to +150	°C

Electrlcal Characterlstlcs Per Lin (@ 25°C Unless Otherwise Specified)

Type Number	Peak Power Dissipation @8/20μS Pppm	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20μS Pppm	Peak Pulse Current @8/20μS Pppm	Reverse Leakage @Vrwm	Maximum Capacitance @1MHZ
		Vrwm	Vc@IPP	IPP	IR@Vrwm	Co
		Max			Max	Max
UNI	W	V	V	A	μA	pF
RLSD32A031LV	350	3.3	7.5	5	20	1.5
RLSD32A051LV	350	5	9.8	5	5	1.5
RLSD32A081LV	350	8	13.4	5	1	1.5
RLSD32A121LV	350	12	19	5	1	1.5
RLSD32A151LV	350	15	24	5	1	1.5
RLSD32A181LV	350	18	29	5	1	1.5
RLSD32A241LV	350	24	43	1	1	1.5
RLSD32A361LV	350	36	60	1	1	1.5

TVS/ESD Arrays - RLSD32AxxxLC Series

Typical Characteristics

Figure 1. Power Derating Curve

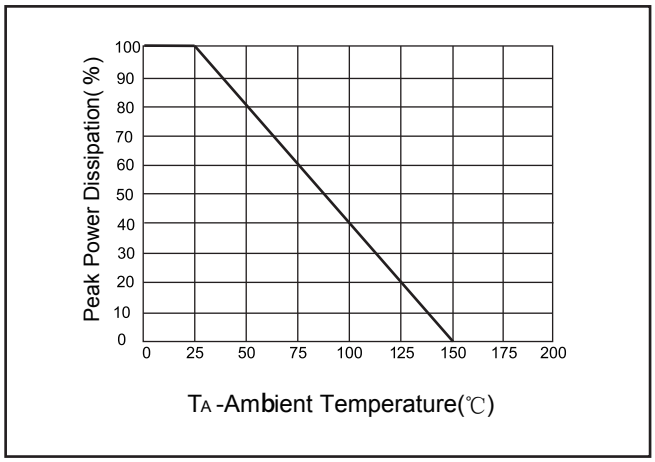


Figure 2. Pulse Waveforms

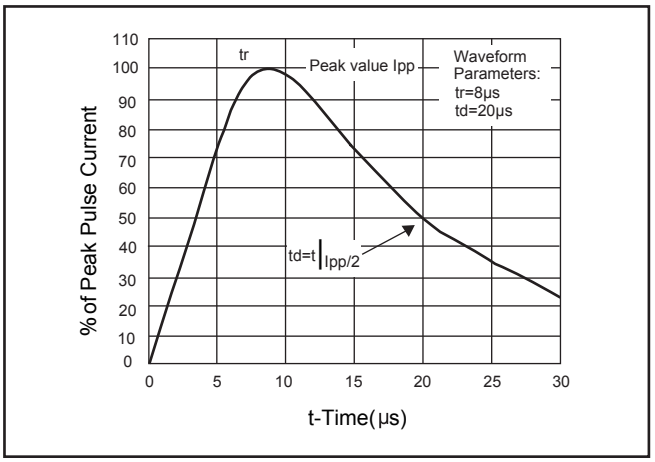


Figure 3. Non-Repetitive Peak Pulse vs Pulse Time

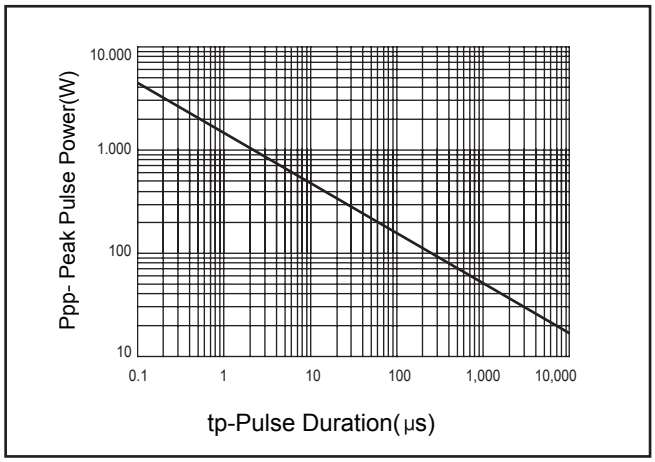
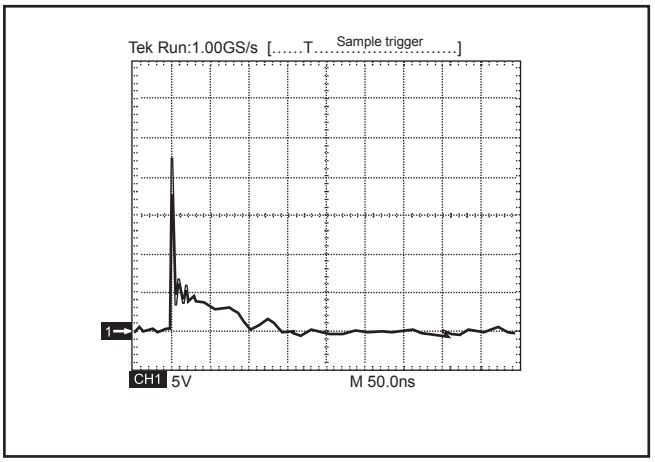
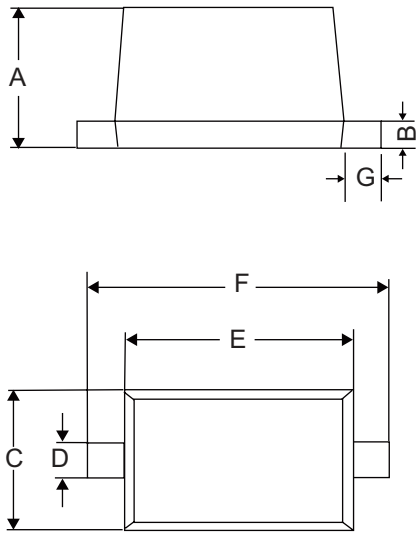


Figure 4. ESD Clamping(8kv Contact IEC61000-4-2)



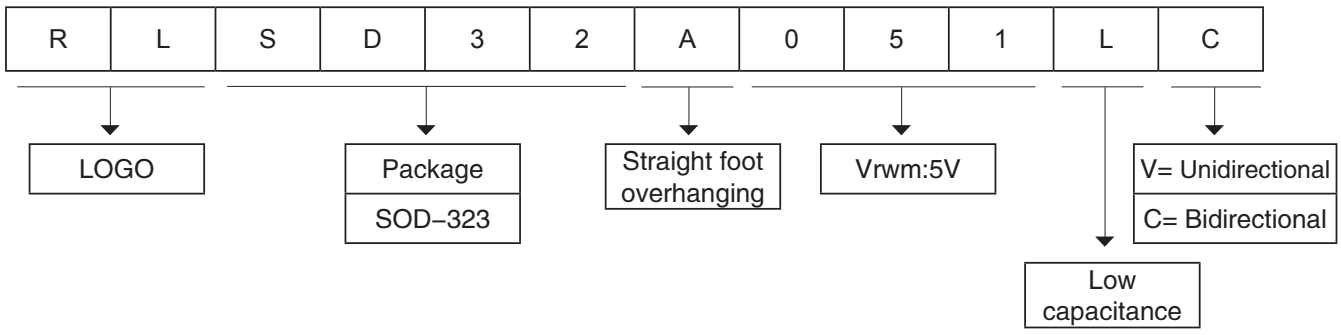
TVS/ESD Arrays - RLSD32AxxxLC Series

Package dimension SOD-323



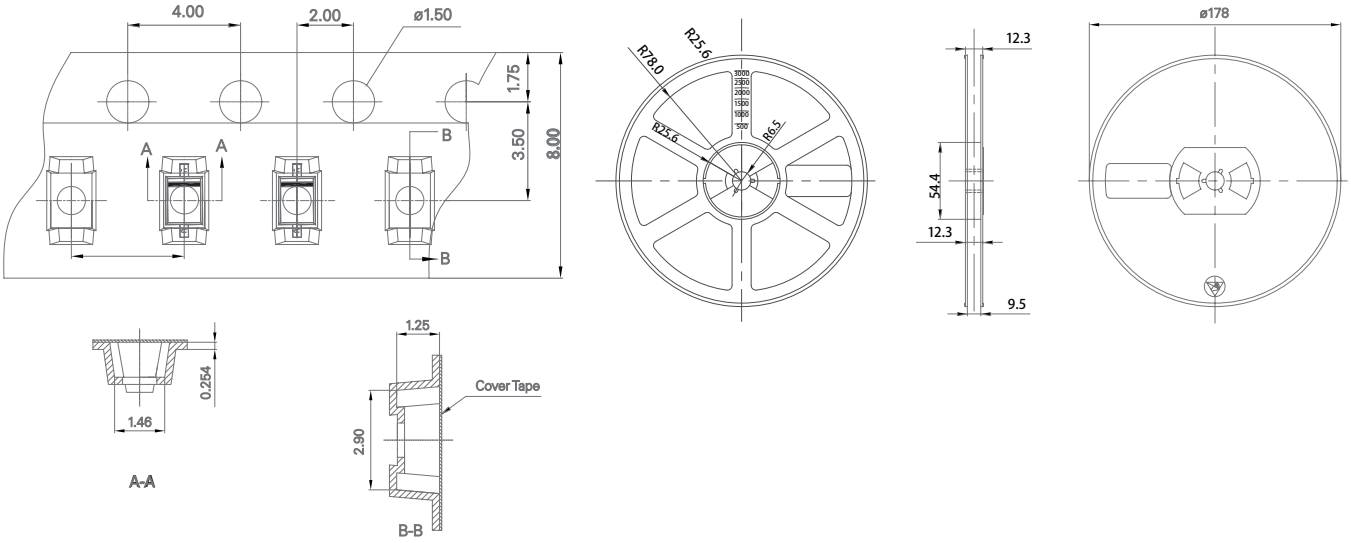
Dimensions				
Symbol	Inches		Millimeters	
	Min	Max	Min	Max
A	---	0.043	---	1.1
B	0.004	0.010	0.10	0.25
C	0.045	0.054	1.2	1.4
D	0.012	0.016	0.3	0.4
E	0.060	0.071	1.5	1.8
F	0.090	0.107	2.3	2.7
G	0.006	0.010	0.15	0.25

Part Number Code



TVS/ESD Arrays - RLSD32AxxxLC Series

Tape and reel



Ordering Information

Part Number	Package	Min. Order Qty.
RLSD32AxxxLC	SOD-323	3000pcs

Warehouse Storage Conditions of Products

▪ Storage Conditions:

1. Storage Temperature: -10°C~+40°C
2. Relative Humidity:≤75%RH
3. Keep away from corrosive atmosphere and sunlight.
4. Period of Storage: 1 year

RuiLongYuan Electronics Co., Ltd.

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