

TVS/ESD Arrays

RLSD32A Series



Specifications are subject to change without notice.

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



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
- Low leakage current

Mechanical Characteristics

- SOD-323 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel per EIA 481
- Lead Finish: Matte tin
- RoHS Compliant

Applications

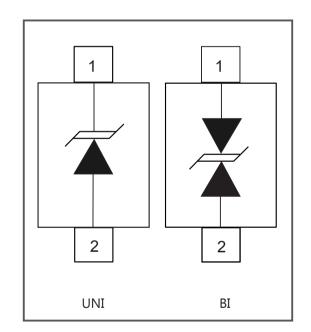
- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

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



Pinout and Functional Block Diagram







Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (tp =8/20µs)	Ppk	350	Watts
Maximum Peak Pulse Current (tp = 8/20µs)	IPP	24	Amps
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{PP}	+/-20 +/-15	Kv
Lead Soldering Temperature	ΤL	260 (10 sec.)	°C
Operating Temperature	Тј	-55 to +125	°C
Storage Temperature	TSTG	-55 to +150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

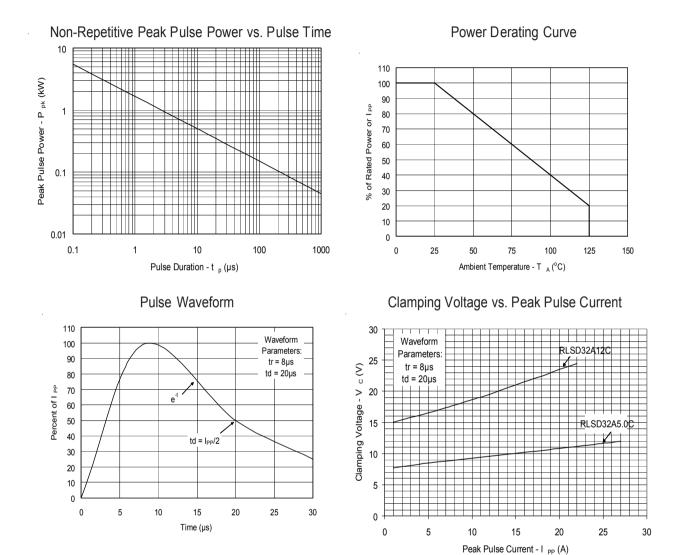
Electrical Characteristics Per Lin (@ 25°C Unless Otherwise Specified)

Type Number		Peak Power Dissipation	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20µS Pppm	Peak Pulse Current @8/20µS Pppm	Reverse Leakage @Vrwm	Maxir Capaci @1M	tance
	@8/20µS Pppm	Vrwm	Vc@IPP	IPP	IR@Vrwm	Со		
			Max	VCWIPP	IPP	Max Max		іх
UNI	BI	W	V	V	А	μΑ	UNI(pF)	BI(pF)
RLSD32A031V	RLSD32A031C	350	3.3	8.4	5	1	450	250
RLSD32A051V	RLSD32A051C	350	5	9.8	5	1	350	125
RLSD32A081V	RLSD32A081C	350	8	12	5	1	350	125
RLSD32A121V	RLSD32A121C	350	12	19	5	1	150	70
RLSD32A151V	RLSD32A151C	350	15	24	5	1	120	60
RLSD32A181V	RLSD32A181C	350	18	29	5	1	100	40
RLSD32A241V	RLSD32A241C	350	24	43	1	1	80	37
RLSD32A361V	RLSD32A361C	350	36	60	1	1	60	30





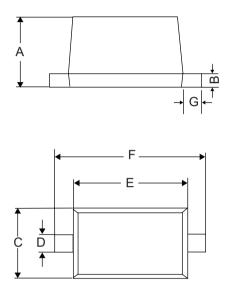
Typical Characteristics







Package dimension SOD-323

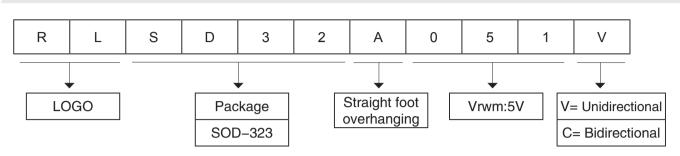


Dimensions						
Symbol	Incl	Inches		Millimeters		
	Min	Max	Min	Max		
А		0.043		1.1		
В	0.004	0.010	0.10	0.25		
С	0.045	0.054	1.2	1.4		
D	0.012	0.016	0.3	0.4		
E	0.060	0.071	1.5	1.8		
F	0.090	0.107	2.3	2.7		
G	0.006	0.010	0.15	0.25		

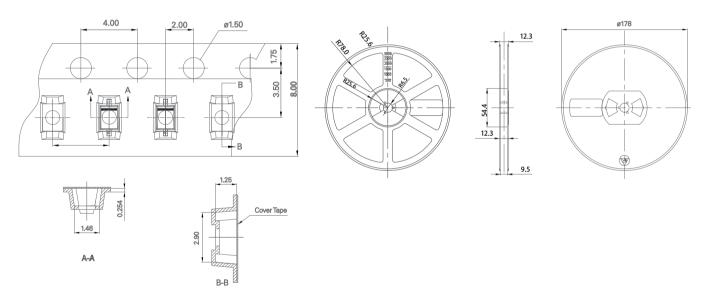




Part Number Code



Ordering Information



Ordering Information

Part Number	Package	Min. Order Qty.
RLSD32A	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.
- Period of Storage: 1 year





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