

TVS/ESD Arrays

RLSD32AxxxLC Series



Specifications are subject to change without notice.

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



TVS/ESD Arrays - RLSD32AxxxLC Series

Features

- 350 Watts Peak Pulse Power per Line (tp = 8/20µs)
- Bidirectional Configuration
- Protects One Power or I/O Port
- ESD Protection > 40 kilovolts
- Low Clamping Voltages
- Ultra Low Capacitance: 1.0 pF Typical



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

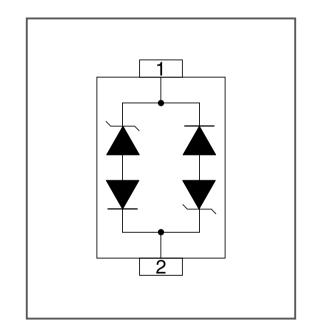
IEC COMPATIBILITY (EN61000-4)

- 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)

Applications

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

Pinout and Functional Block Diagram





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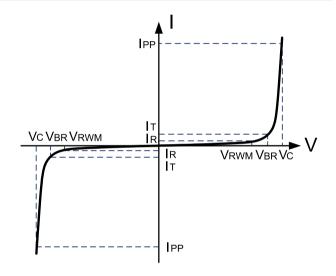
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Absolute Maximum Rating

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

Electrical Parameters (T=25°C)

Symbol	Parameter
VRWM	Working Peak Reverse Voltage
IR	Maximum Reverse Leakage Current @ V_{RWM}
Vbr	Breakdown Voltage @ I⊤
lτ	Test Current
lF	Forward Current
VF	Forward Voltage @ I⊧



Electrical CharacteristIcs PerLin (@ 25°C Unless Otherwise Specified)

	Peak Power Dissipation @8/20µS	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20µS	Peak Pulse Current @8/20µS	Reverse Leakage @Vrwm	Maximum Capacitance @1MHZ
	Pppm	Vrwm	Vc@IPP	IPP	IR@Vrwm	Со
		Max			Max	Max
	W	V	V	А	μA	pF
RLSD32A031LC	350	3.3	7.5	5	20	1
RLSD32A051LC	350	5	9.8	5	5	1
RLSD32A081LC	350	8	13.4	5	1	1
RLSD32A121LC	350	12	19	5	1	1
RLSD32A151LC	350	15	24	5	1	1
RLSD32A181LC	350	18	29	5	1	1
RLSD32A241LC	350	24	43	1	1	1
RLSD32A361LC	350	36	60	1	1	1



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Typical Characteristics

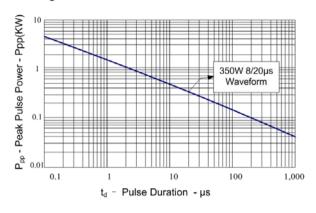


Figure 1: Peak Pulse Power vs. Pulse Time

Figure 2: Power Derating Curve

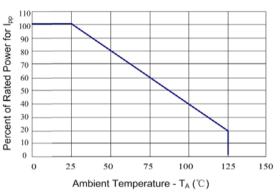


Figure 3: Clamping Voltage vs. Peak Pulse Current

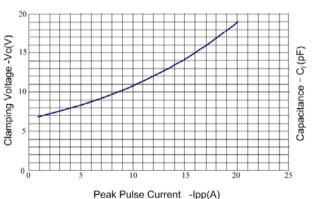


Figure 5: Pulse Waveform

System

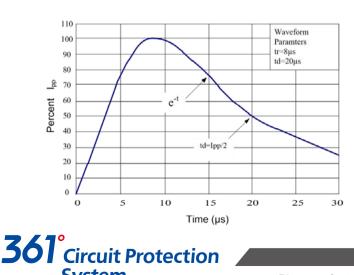
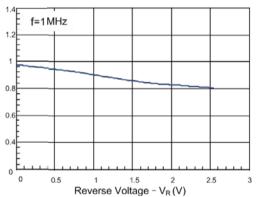
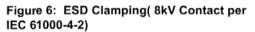
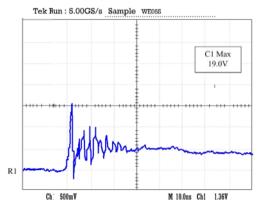


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage







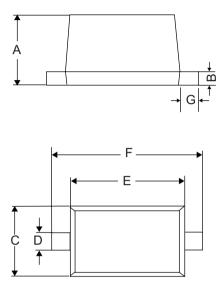
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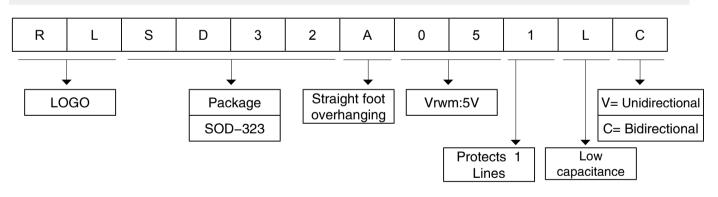
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Package dimension SOD-323



Dimensions				
Symbol	Inches		Millimeters	
	Min	Max	Min	Max
А	0.031	0.040	0.8	1.0
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
Е	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

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



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