

TVS/ESD Arrays

RLSD32AxxxV Series

TVS/ESD Arrays - RLSD32AxxxV 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
- · Solid-state silicon avalanche technology

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

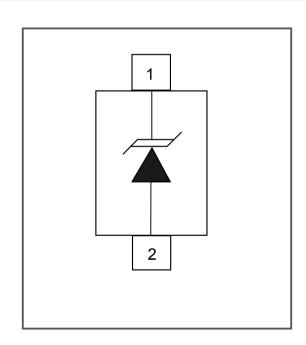
- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- · Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

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



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Absolute Maximum Rating

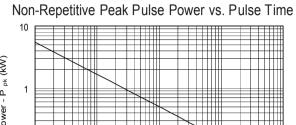
Rating	Symbol	Value	Units
Peak Pulse Power (tp =8/20μs)	Ppk	350	Watts
Maximum Peak Pulse Current (tp = $8/20\mu$ s)	Ірр	24	Amps
ESD voltage (HBM contact)	v_{ESD}	±8	Kv
ESD voltage (AIR contact)	v _{ESD}	±15	Kv
Lead Soldering Temperature	TL	260 (10 sec.)	°C
Operating Temperature	Tj	-55 to +125	°C
Storage Temperature	₹STG	-55 to +150	°C

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

Type Number	Peak Power Dissipation @8/20µS Pppm	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20µS	Peak Pulse Current @8/20µS	Reverse Leakage @Vrwm	Maximum Capacitance @1MHZ
		Vrwm	Vrwm Vc@IPP	IPP	IR@Vrwm	Со
		Max			Max	Max
	W	V	V	Α	μΑ	pF
RLSD32A031V	350	3.3	6.5	1	5	450
RLSD32A051V	350	5	9.8	1	5	300
RLSD32A081V	350	8	14	1	1	200
RLSD32A121V	350	12	19	1	1	130
RLSD32A151V	350	15	24	1	1	120
RLSD32A181V	350	18	29	1	1	100
RLSD32A241V	350	24	43	1	1	80
RLSD32A361V	350	36	60	1	1	60

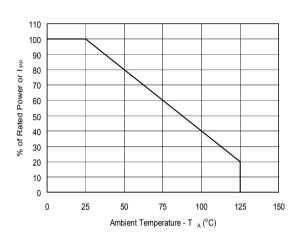
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Typical Characteristics



Peak Pulse Power - P pk (kW) 0.01 0.1 1000

Power Derating Curve

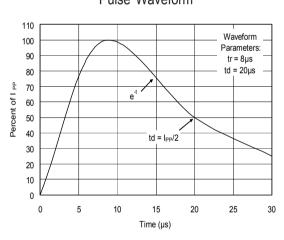


Pulse Waveform

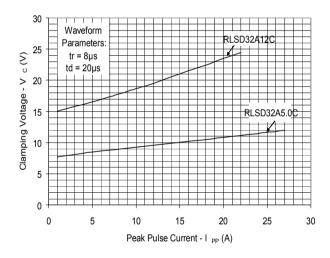
10

Pulse Duration - t p (µs)

100

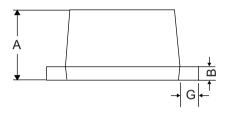


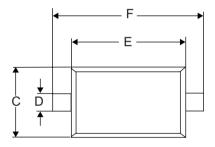
Clamping Voltage vs. Peak Pulse Current



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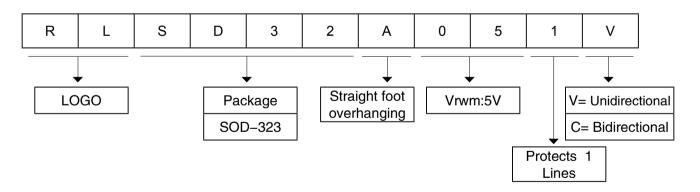
Package dimension SOD-323





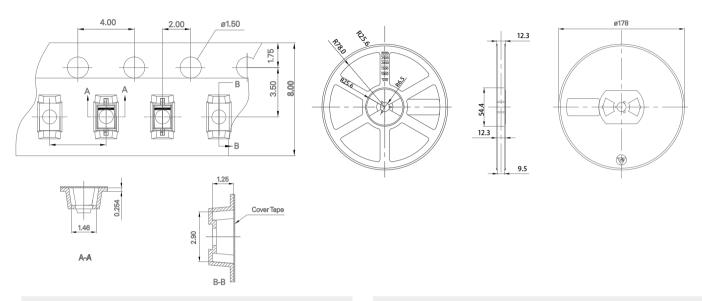
Dimensions					
Symbol	Incl	Inches		Millimeters	
Symbol	Min	Max	Min	Max	
А		0.043		1.1	
В	0.004	0.010	0.10	0.25	
С	0.045	0.054	1.2	1.4	
D	0.012	0.016	0.3	0.4	
Е	0.060	0.071	1.5	1.8	
F	0.090	0.107	2.3	2.7	
G	0.006	0.010	0.15	0.25	

Part Number Code



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Tape and reel



Ordering Information

Part Number	Package	Min. Order Qty.
RLSD32AxxxV	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

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