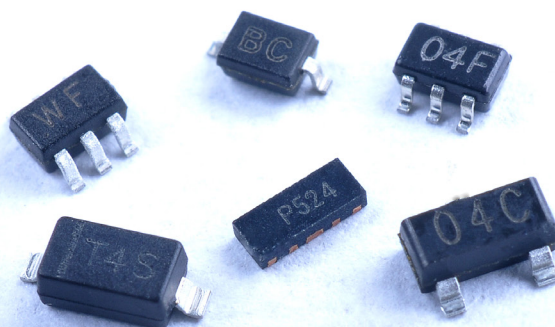




TVS/ESD Arrays

RLSD32AxxxC Series

TVS/ESD Arrays - RLSD32AxxxC Series

Features

- 350 Watts peak pulse power ($t_p = 8/20\mu s$)
- Transient protection for data lines to
IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
IEC 61000-4-4 (EFT) 40A (5/50ns)
IEC 61000-4-5 (Lightning) 24A (8/20 μs)
- Small package for use in portable electronics
- Suitable replacement for MLV's in ESD protection applications
- Protects one I/O or power line
- 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

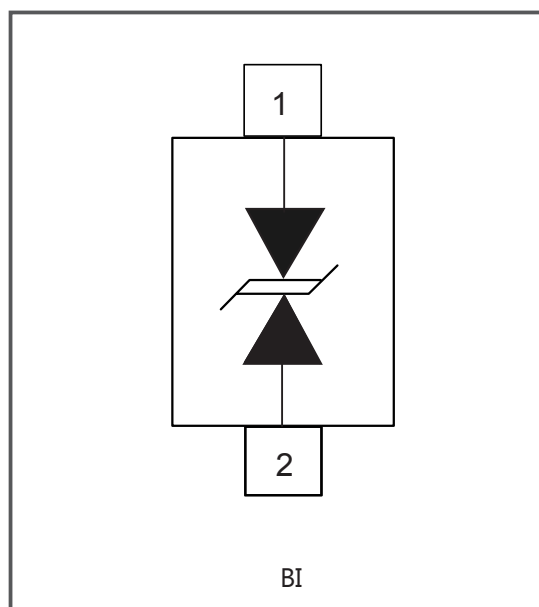
Applications

- 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



TVS/ESD Arrays - RLSD32AxxxC Series

Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P _{pk}	350	Watts
Maximum Peak Pulse Current ($t_p = 8/20\mu s$)	I _{PP}	24	Amps
ESD per IEC 61000-4-2 (Air)	V _{PP}	+/-20	Kv
ESD per IEC 61000-4-2 (Contact)		+/-15	
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature	T _J	-55 to +125	°C
Storage Temperature	T _{STG}	-55 to +150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

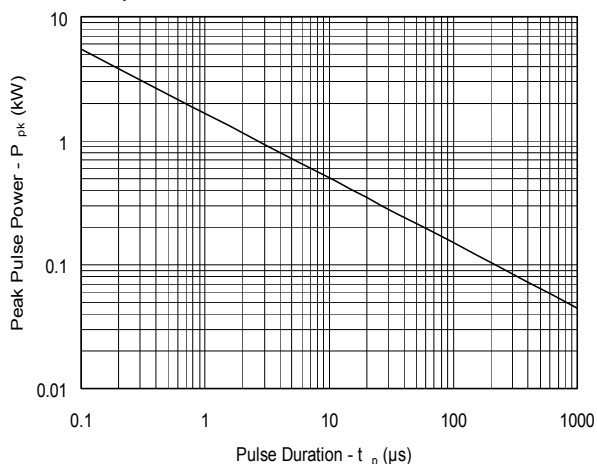
Electrical Characteristics Per Lin (@ 25°C Unless Otherwise Specified)

Type Number	Peak Power Dissipation @8/20 μ S P _{ppm}	Reverse Stand-Off Voltage V _{rw} Max	Peak Pulse Voltage @8/20 μ S P _{ppm} V _{c@IPP}	Peak Pulse Current @8/20 μ S P _{ppm} I _{PP}	Reverse Leakage @V _{rw} I _{R@V_{rw}} Max	Maximum Capacitance @1MHZ C _o Max
BI	W	V	V	A	μ A	BI(pF)
RLSD32A031C	350	3.3	7.5	5	5	250
RLSD32A051C	350	5	9.8	5	5	200
RLSD32A081C	350	8	12	5	1	125
RLSD32A121C	350	12	19	5	1	70
RLSD32A151C	350	15	24	5	1	60
RLSD32A181C	350	18	29	5	1	40
RLSD32A241C	350	24	36	1	1	37
RLSD32A361C	350	36	58	1	1	30

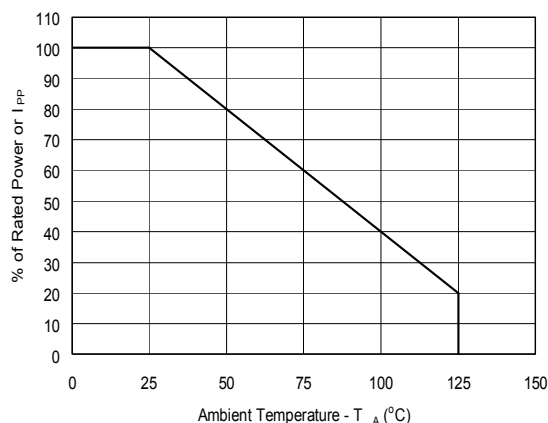
TVS/ESD Arrays - RLSD32AxxxC Series

Typical Characteristics

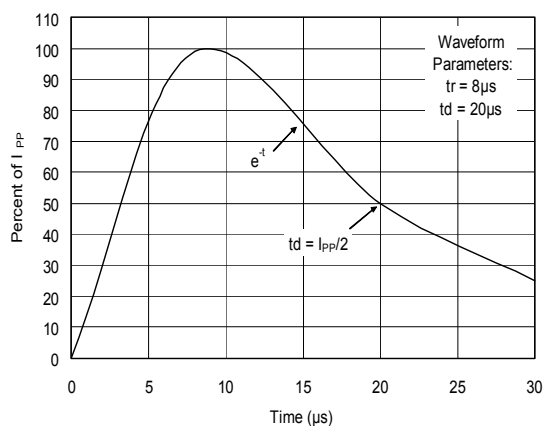
Non-Repetitive Peak Pulse Power vs. Pulse Time



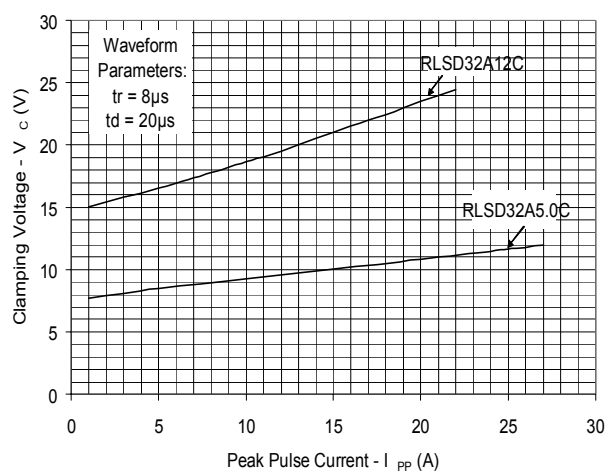
Power Derating Curve



Pulse Waveform

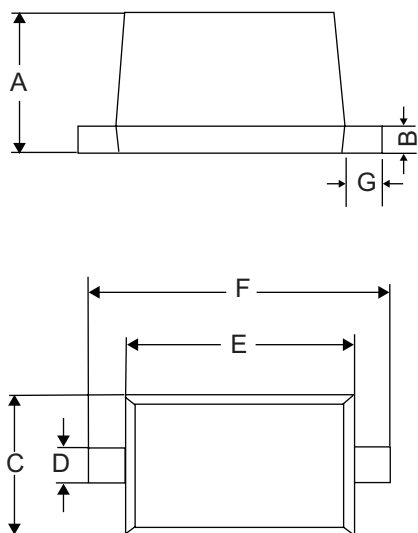


Clamping Voltage vs. Peak Pulse Current



TVS/ESD Arrays - RLSD32AxxxC Series

Package dimension SOD-323



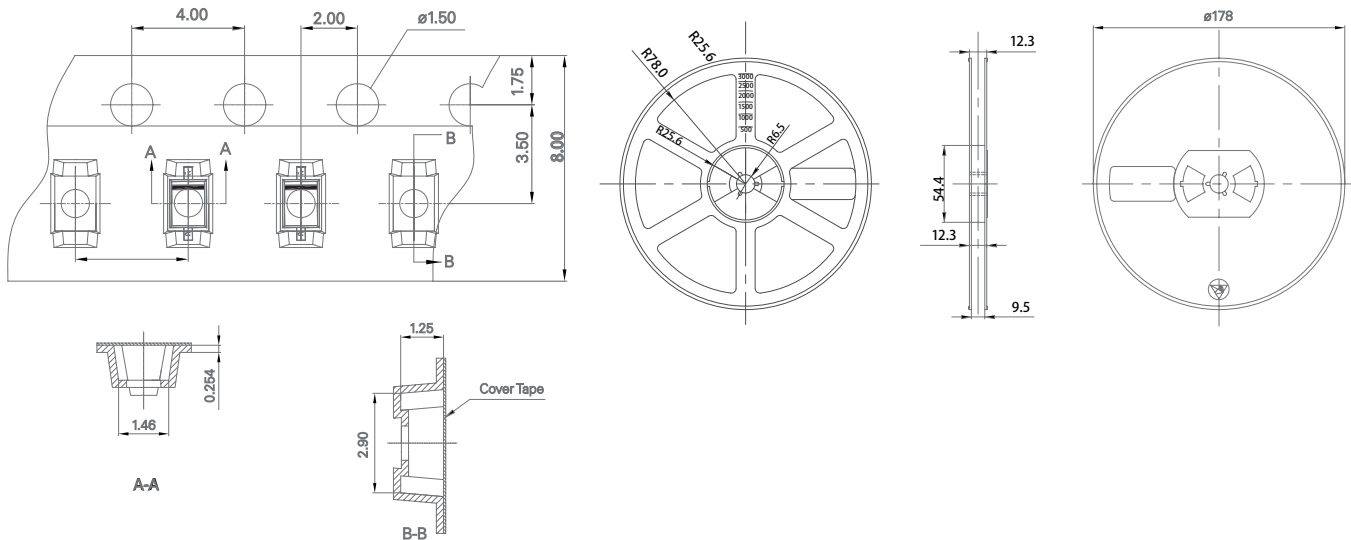
Dimensions				
Symbol	Inches		Millimeters	
	Min	Max	Min	Max
A	---	0.043	---	1.1
B	0.004	0.010	0.10	0.25
C	0.045	0.054	1.2	1.4
D	0.012	0.016	0.3	0.4
E	0.060	0.071	1.5	1.8
F	0.090	0.107	2.3	2.7
G	0.006	0.010	0.15	0.25

Part Number Code

R	L	S	D	3	2	A	0	5	1	C
↓		↓		↓		↓		↓		↓
LOGO		Package		Straight foot		Vrwm:5V		V= Unidirectional		C= Bidirectional
		SOD-323								

TVS/ESD Arrays - RLSD32Axxx C Series

Tape and reel



Ordering Information

Part Number	Package	Min. Order Qty.
RLSD32Axxx C	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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