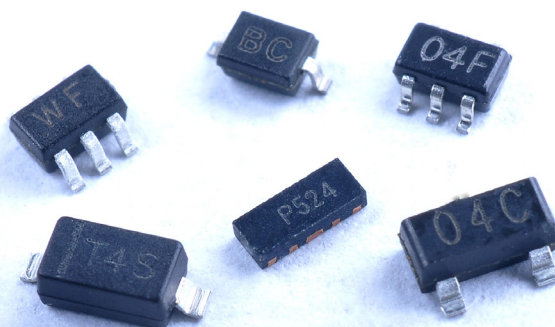




TVS/ESD Arrays

RLSD32A Series

TVS/ESD Arrays - RLSD32A 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
- 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

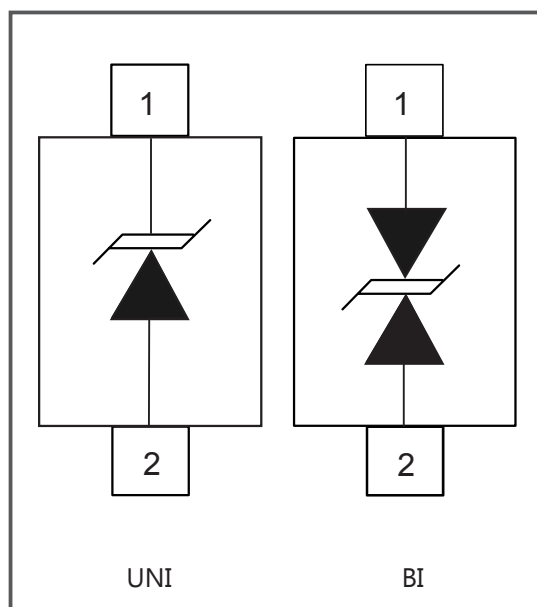
Applications

- 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



TVS/ESD Arrays - RLSD32A 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

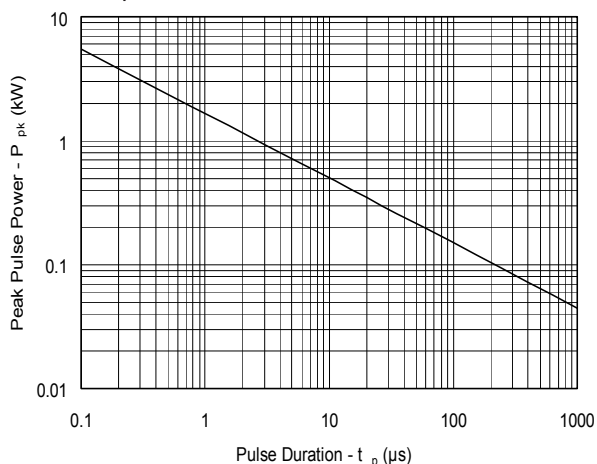
Electrical Characteristics Per Lin (@ 25°C Unless Otherwise Specified)

Type Number		Peak Power Dissipation @8/20 μ S P _{ppm}	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20 μ S P _{ppm}	Peak Pulse Current @8/20 μ S P _{ppm}	Reverse Leakage @V _{rw}	Maximum Capacitance @1MHZ	
			V _{rw}	V _{c@IPP}	IPP	IR@V _{rw}	Co	
			Max			Max	Max	
UNI	BI	W	V	V	A	μ A	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

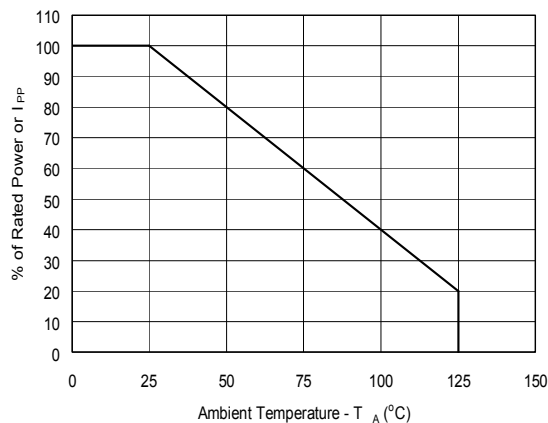
TVS/ESD Arrays - RLSD32A Series

Typical Characteristics

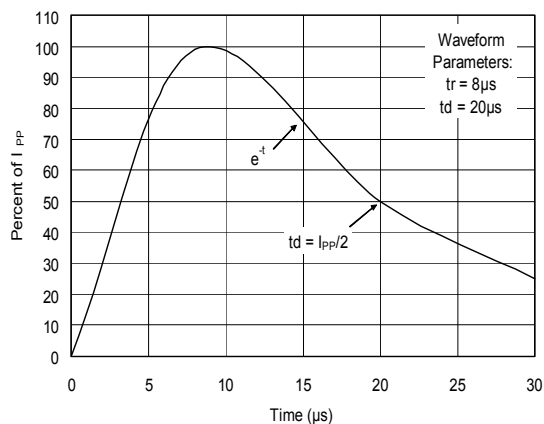
Non-Repetitive Peak Pulse Power vs. Pulse Time



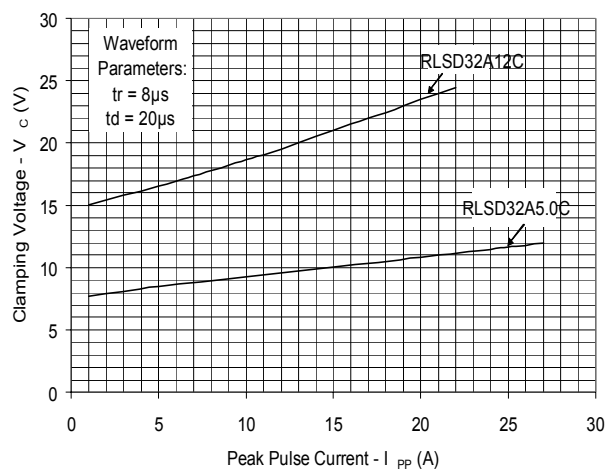
Power Derating Curve



Pulse Waveform

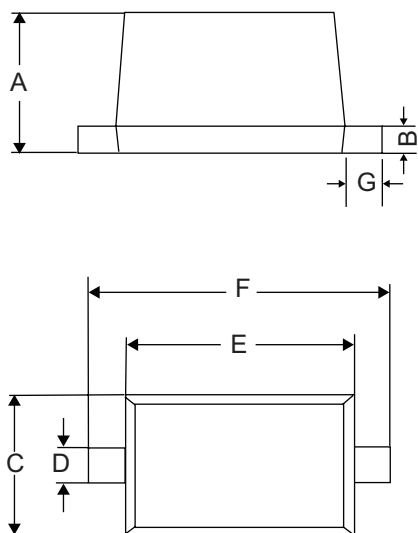


Clamping Voltage vs. Peak Pulse Current



TVS/ESD Arrays - RLSD32A Series

Package dimension SOD-323



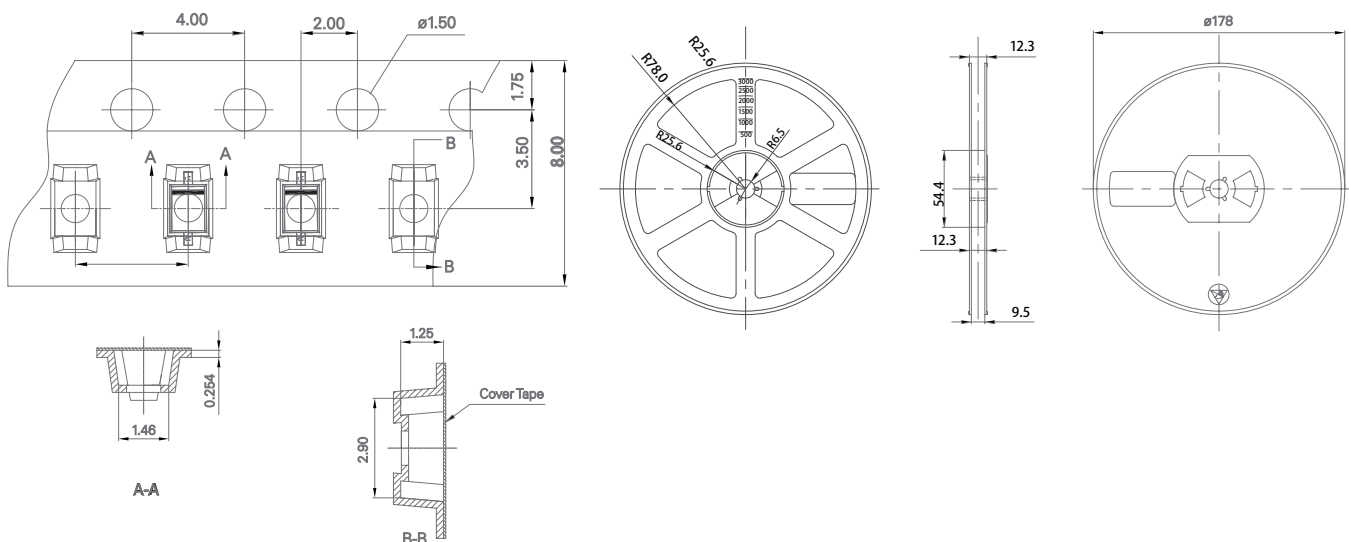
Dimensions				
Symbol	Inches		Millimeters	
	Min	Max	Min	Max
A	---	0.043	---	1.1
B	0.004	0.010	0.10	0.25
C	0.045	0.054	1.2	1.4
D	0.012	0.016	0.3	0.4
E	0.060	0.071	1.5	1.8
F	0.090	0.107	2.3	2.7
G	0.006	0.010	0.15	0.25

TVS/ESD Arrays - RLSD32A Series

Part Number Code

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

Ordering Information



Ordering Information

Part Number	Package	Min. Order Qty.
RLSD32A	SOD-323	3000pcs

Warehouse Storage Conditions of Products

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

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Tel: +86-755-8290 8296

Fax: +86-755-8290 8002

E-mail: jack@ruilon.com