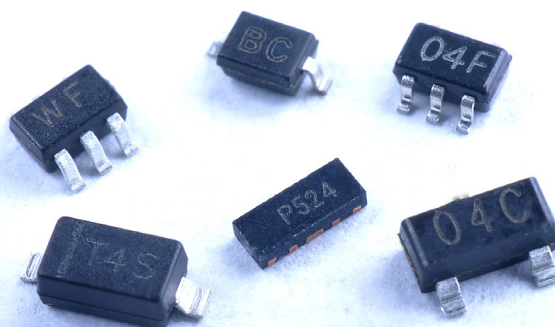




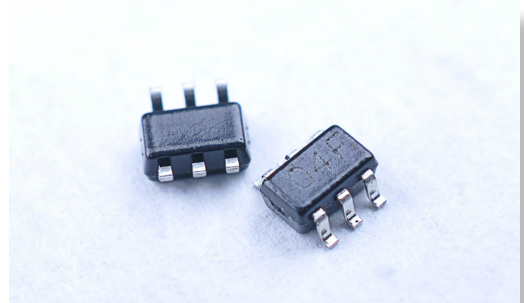
TVS/ESD Arrays

RLST236Axxx C Series

TVS/ESD Arrays - RLST236Axxx C Series

Features

- 350 Watts peak pulse power ($t_p = 8/20\mu s$)
- Transient protection for high speed 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)
- One device protects one unidirectional line
- Two devices protect two high-speed line pairs
- Low leakage current
- Low operating and clamping voltages
- Solid-state EPD TVS process technology



Mechanical Characteristics

- SOT-23-6L package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel per EIA 481
- Lead Finish: Matte tin
- RoHS Compliant

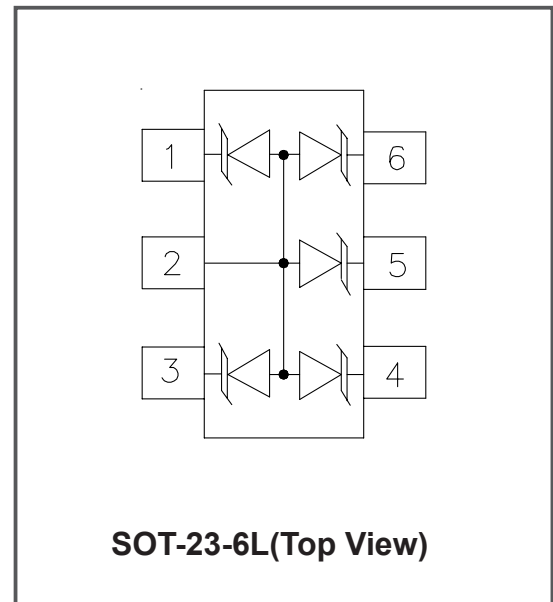
Applications

- USB Power & Data Line Protection
- Ethernet 10BaseT
- I²C Bus Protection
- Video Line Protection
- T1/E1 secondary IC Side Protection
- Portable Electronics
- Microcontroller Input Protection
- WAN/LAN Equipment
- ISDN S/T Interface

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 - RLST236AxxxC Series

Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P_{pk}	350	Watts
ESD voltage (HBM contact)	V_{ESD}	± 8	kV
ESD voltage (AIR contact)		± 15	
Lead Soldering Temperature	T_K	260 (10 sec.)	$^{\circ}C$
Operating Temperature	T_J	-55 to +125	$^{\circ}C$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}C$

Electrical Characteristics Per Lin (@ 25 $^{\circ}C$ Unless Otherwise Specified)

Type Number	Peak Power Dissipation @8/20 μs Pppm	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20 μs Pppm	Peak Pulse Current @8/20 μs Pppm	Reverse Leakage @Vrwm	Maximum Capacitance @1MHZ
		Vrwm	$V_{c@IPP}$	IPP	IR@Vrwm	Co
		Max			Max	Max
	W	V	V	A	μA	BI(pF)
RLST236A055C	350	5	9.5/13	5/24	5	200
RLST236A125C	350	12	17/25	4/15	5	90
RLST236A155C	350	15	22/27	5/12	5	70
RLST236A245C	350	24	35/40	5/8	5	50

TVS/ESD Arrays - RLST236AxxxC Series

Typical Characteristics

Figure 1. Power Derating Curve

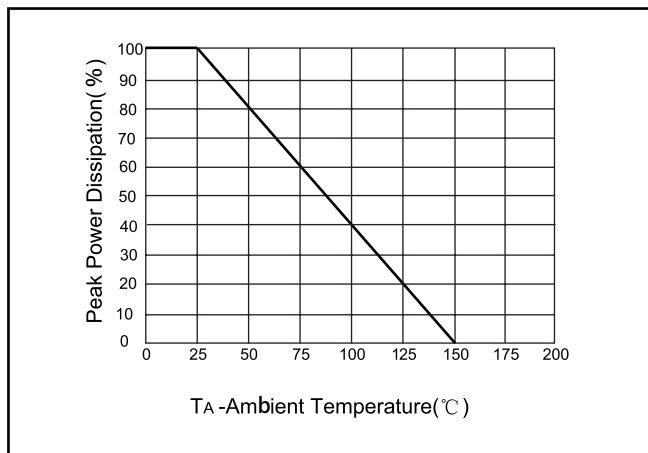


Figure 2. Pulse Waveforms

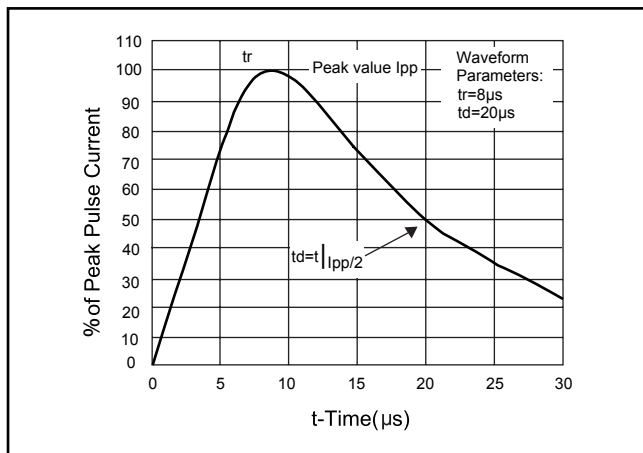


Figure 3. Non-Repetitive Peak Pulse vs Pulse Time

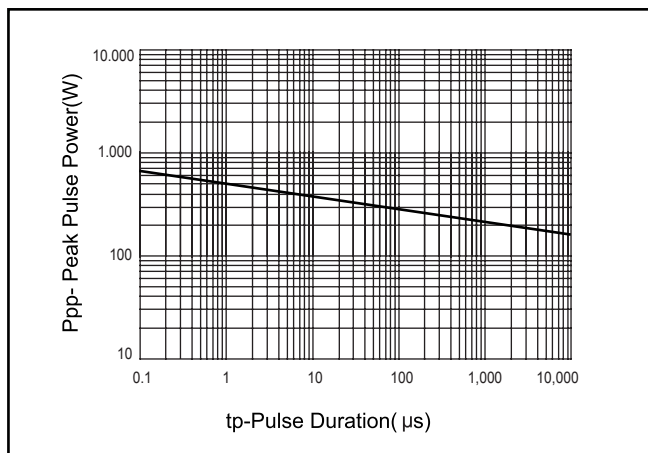
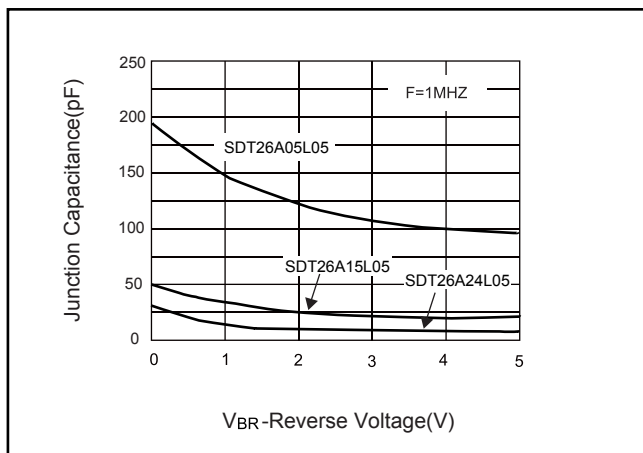
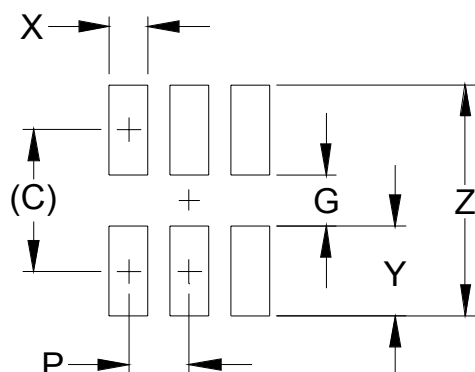


Figure 4. Capacitance vs. Reverse Voltage



TVS/ESD Arrays - RLST236AxxxC Series

Land Pattern SOT-23-6L



DIMENSIONS		
DIM	INCHES	MILLIMETERS
C	(0.098)	(2.50)
G	0.055	1.40
P	0.037	0.95
X	0.024	0.60
Y	0.043	1.10
Z	0.141	3.60

NOTES:

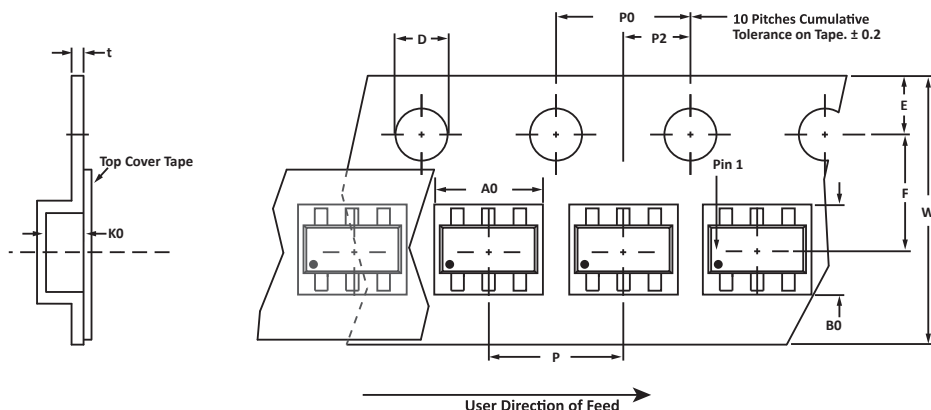
1. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

Part Number Code

R	L	S	T	2	3	6	A	0	5	5	C
↓		↓				↓	↓		↓		
LOGO		Package		Straight foot overhanging		Vrwm:5V		V= Unidirectional C= Bidirectional			
		SOT-23-6L									

TVS/ESD Arrays - RLST236Axxx C Series

Ordering Information



SPECIFICATIONS

REEL DIA.	TAPE WIDTH	A0	B0	k0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	3.20 ± 0.10	3.20 ± 0.10	1.65 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25

NOTES

1. Dimensions are in millimeters.
2. Surface mount product is taped and reeled in accordance with EIA-481.
3. Suffix - T7 = 7" Reel - 3,000 pieces per 8mm tape.
4. Marking on Part - marking code (see page 2) and pin one defined by dot on package.

Package outline, pad layout and tape specifications per document number 06013.R5 2/11

Ordering Information

Part Number	Package	Min. Order Qty.
RLST236Axxx C	SOT-23-6L	3000pcs

Warehouse Storage Conditions of Products

Storage Conditions:

1. Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
2. Relative Humidity: $\leq 75\% \text{RH}$
3. Keep away from corrosive atmosphere and sunlight.
4. Period of Storage: 1 year

RuiLongYuan Electronics Co., Ltd.

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Tel: +86-755-8290 8296

Fax: +86-755-8290 8002

E-mail: jack@ruilon.com