

TVS/ESD Arrays

RLST363A054LV Series



Specifications are subject to change without notice.

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



Features

- 150 Watts peak pulse power (tp = 8/20µs)
- 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 (8/20µs)
- One device protects one unidirectional line
- Two devices protect two high-speed line pairs
- Low capacitance
- Low leakage current
- Low operating and clamping voltages
- Solid-state EPD TVS process technology

Mechanical Characteristics

- SOT363 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel per EIA 481
- Lead Finish: Matte tin
- RoHS Compliant

Applications

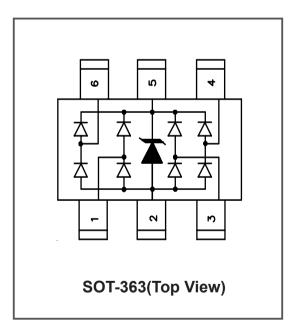
- USB Power & Data Line Protection
- Ethernet 10BaseT
- I²C Bus Protection
- Video Line Protection
- T1/E1 secondary IC Side Protection
- Portable Electronics
- Microcontroller Input Protection
- WAN/LAN Equipment
- ISDN S/T Interface

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







Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (tp =8/20µs)	Ppk	150	Watts
ESD voltage (HBM contact)	Vece	±8	kV
ESD voltage (AIR contact)	V _{ESD}	±15	ĸv
Lead Soldering Temperature	Т _К	260 (10 sec.)	°C
Operating Temperature	ТJ	-55 to +125	°C
Storage Temperature	TSTG	-55 to +150	°C

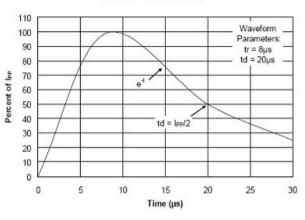
Electrical Characteristics Per Lin (@ 25°C Unless Otherwise Specified)

	Peak Power Dissipation @8/20µS Pppm	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20µS Pppm	Peak Pulse Current @8/20µS Pppm	Reverse Leakage @Vrwm	Maximum Capacitance @1MHZ
Type Number		Vrwm	Vc@IPP	IPP	IR@Vrwm	Со
		Max			Max	Max
	W	V	V	А	μΑ	BI(pF)
RLST363A054LV	150	5	15/25	1/6	0.5	1

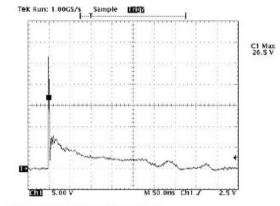


TVS/ESD Arrays - RLST363A054LV Series

Typical Characteristics

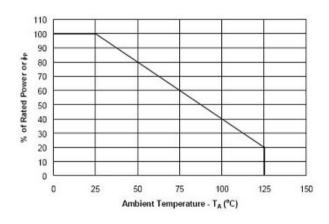


Pulse Waveform



ESD Response (8kV Contact per IEC 61000-4-2)

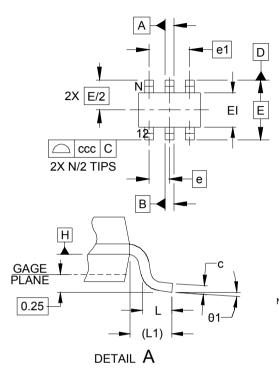
te: Data is taken with a 10x attenuator

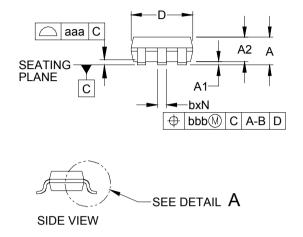






Package Dimension SOT-363





NOTES:

1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).

2. DATUMS -A- AND -B- TO BE DETERMINED AT DATUM PLANE-H-

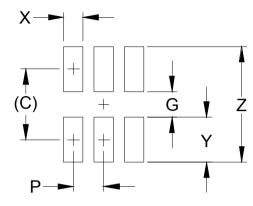
3. DIMENSIONS "E1" AND "D" DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

Dimensions						
DIM		Inches		Millimeters		
DIVI	Min	Nom	Max	Min	Nom	Max
А	0.035	-	0.057	0.90	-	1.45
А	0.000	-	0.006	0.00	-	0.15
A2	0.035	0.045	0.051	0.90	1.15	1.30
b	0.010	-	0.020	0.25	-	0.50
С	0.003	-	0.009	0.08	-	0.22
D	0.110	0.114	0.122	2.80	2.90	3.10
E1	0.60	0.063	0.069	1.50	1.60	1.75
E		0.110 BSC			2.80 BSC	
е		0.037 BSC			0.95 BSC	
e1		0.075 BSC			1.90 BSC	
L	0.012	0.018	0.024	0.30	0.45	0.60
L1		(0.024)			(0.60)	
Ν		6			6	
θ	0°	-	10°	٥	-	10°
aaa		0.004			0.10	
bbb		0.008			0.20	
ссс		0.008			0.20	





Soldering footprint

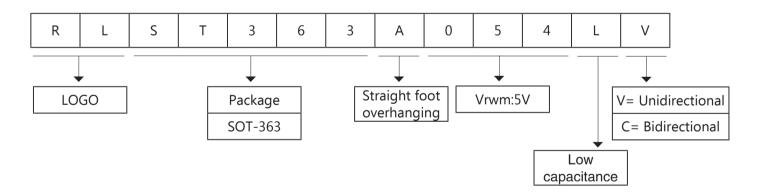


DIMENSIONS				
DIM	INCHES	MILLIMETERS		
С	(0.098)	(2.50)		
G	0.055	1.40		
Р	0.037	0.95		
Х	0.024	0.60		
Y	0.043	1.10		
Z	0.141	3.60		

NOTES:

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

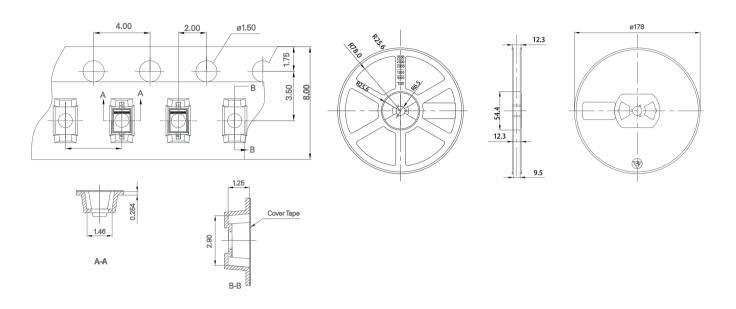
Part Number Code







Ordering Information



Ordering Information

Part Number	Package	Min. Order Qty.
RLST363A054LV	SOT-23-6L	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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