

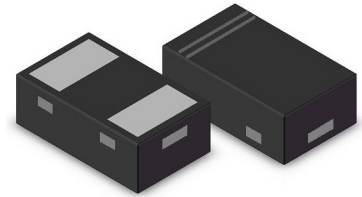
TVS/ESD Arrays

RLSD92QxxxV Series

TVS/ESD Arrays - RLSD92QxxxV Series

Features

- 40W Power Dissipation (8/20 μ s Waveform)
- Low Leakage Current, Maximum of 2.5 μ A@3.3Vdc
- Very low Clamping voltage
- IEC 61000-4-2 ESD 30kV air, 30kV Contact Compliance
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- Terminals : Solderable per MIL-STD-750, Method 2026
- Case : DFN 2L, Plastic



Mechanical Characteristics

- DFN-2L package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel per EIA 481
- Lead Finish: Matte tin
- RoHS Compliant

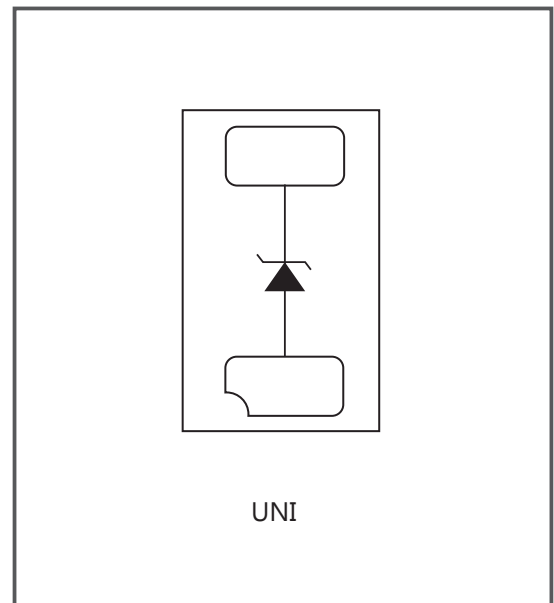
Applications

- Video I/O ports protection
- Set Top Boxes
- Portable Instrumentation
- Notebooks, Desktops, and Servers
- 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 (8/20 μ s Waveform)	P _{pp}	40	Watts
Peak Pulse Current (8/20 μ s Waveform)	I _{PPM}	6	A
Operating Junction and Storage Temperature Range	T _J , T _S T _G	-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}	I _{PP}	I _{R@V_{rw}}	Co
		Max			Max	Max
UNI	W	V	V	A	μ A	UNI(pF)
RLSD92Q051V	40	5	9.8	4	1	35

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Typical Characteristics

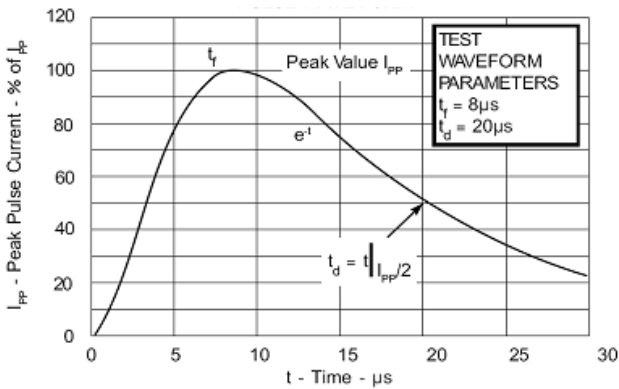
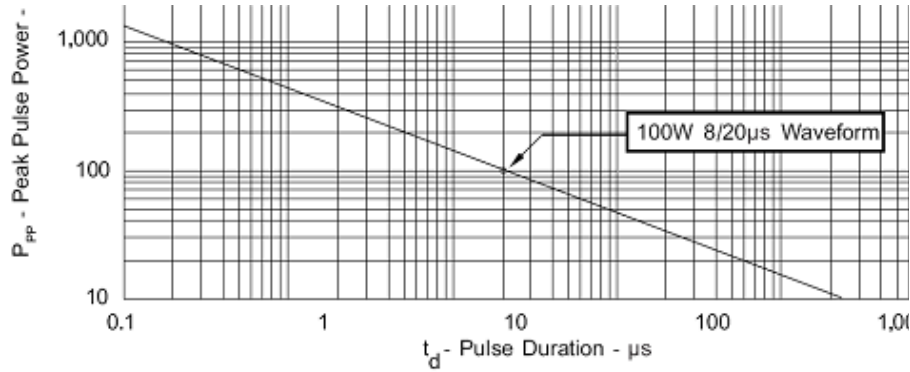


Figure 2. Pulse wave form

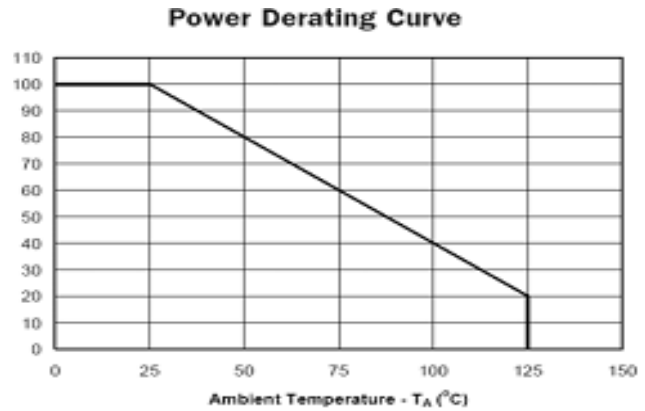


Figure 3. Power derating curve

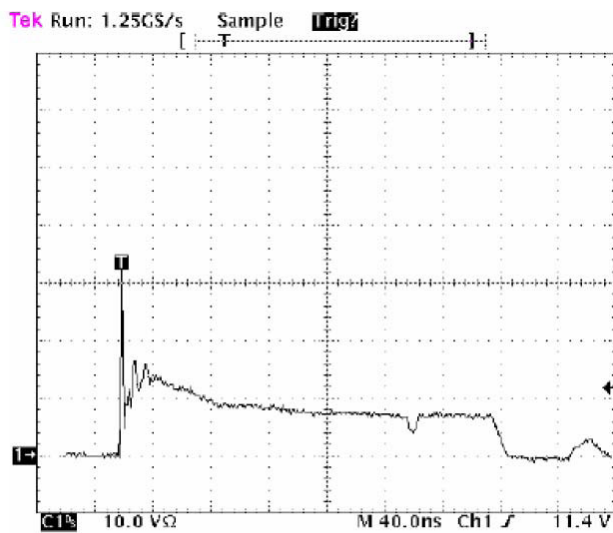


Figure 4. Positive 8kV contact per IEC

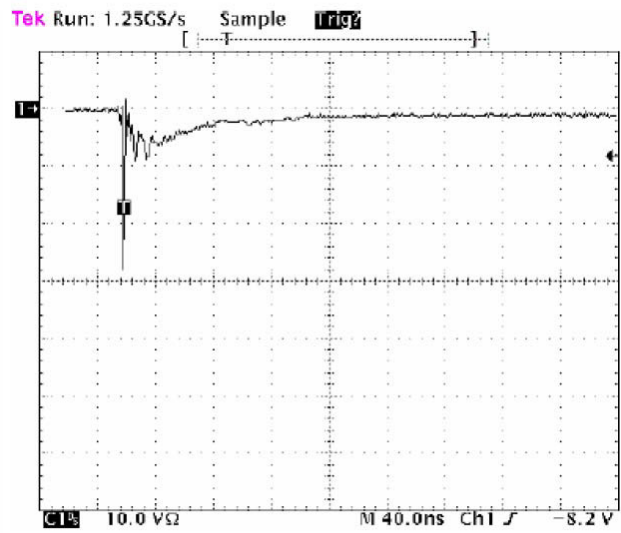
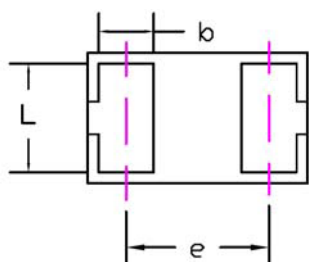
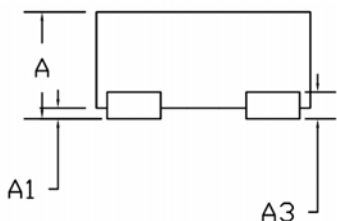
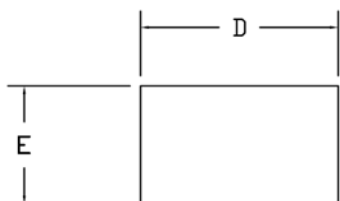


Figure 5. Negative 8kV contact per IEC

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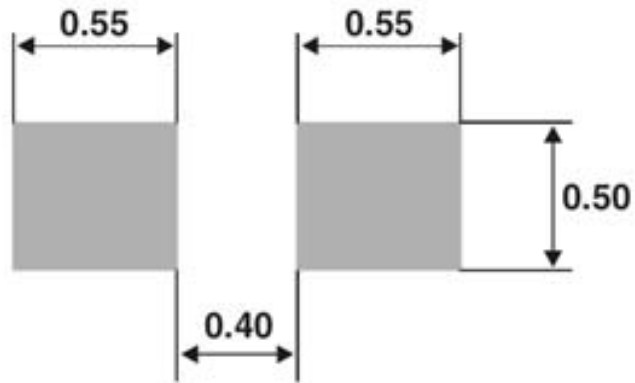
Package dimension DFN-2L



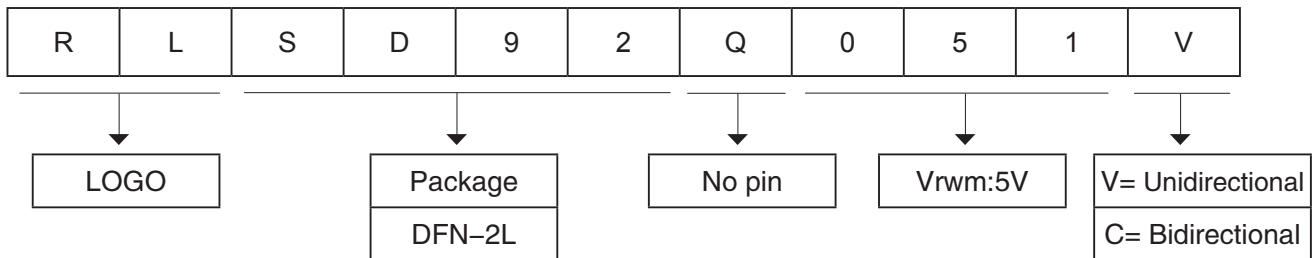
Dimensions			
PKG.	X1:Extreme thin		
Ref.	Min	Nom	Max
A	0.4	-	0.5
A10	0.00	-	0.05
A3	0.125Ref		
D	0.951	0.00	1.05
E	0.550	0.60	0.65
B	0.200	0.25	0.30
L	0.450	0.50	0.55
e	0.65 BSC		

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Soldering footprint

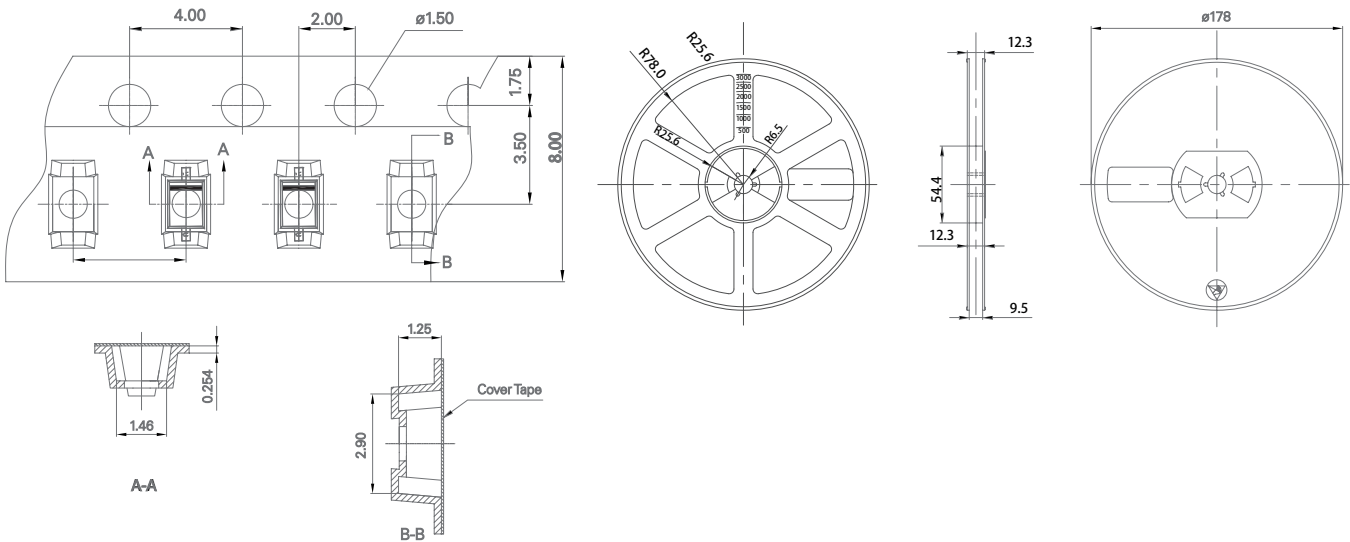


Part Number Code



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Tape and reel



Ordering Information

Part Number	Package	Min. Order Qty.
RLSD92QxxxV	DFN-2L	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

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