

LOW Capacitance ESD TVS Array

Features

- 120Watts peak pulse power (tp = 8/20 µs)
- SOT23-6 package
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Low capacitance (0.7pF typical I/O to I/O)
- ESD Protection for high-speed data lines to: IEC 61000-4-2 ±15KV contact ±8KV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 7A (8/20 μs)
- RoHS compliant

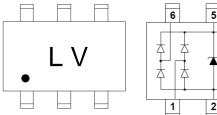
Applications

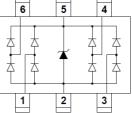
- Video lines protection
- 100/1000M Ethernet protection
- Fingerprint sensor
- Other LAN application
- Other 3.3V application



Marking : .LV SOT23-6

Schematic Diagram





Absolute Maximum Ratings (TA=25°C, Unless otherwise specified.)				
Parameter	Symbol	Value	Unit	
Peak Pulse Power (T _P =8/20µS)	P _{PP}	120	W	
Peak Pulse Current (tP = 8/20µS)	I _{PP}	7	A	
Junction Temperature	TJ	-55 to +125	°C	
Storage temperature	T _{STG}	-55 to +150	°C	

Electrical Characteristics (T _A =25°C, Unless otherwise specified.)						
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	4.0			V
Reverse Leakage Current	I _R	VR=3.3V			1	μA
Clamping Voltage	Vc	I _{PP} =7Α, T _P =8/20μS		11	13.5	V
Junction Capacitance	CJ	V _R =0V,f=1MHz, I/O to I/O		0.7		pF
Sunction Capacitance	CJ	V _R =0V,f=1MHz, I/O to GND		1.5		pF



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

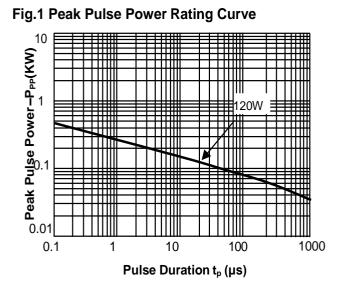
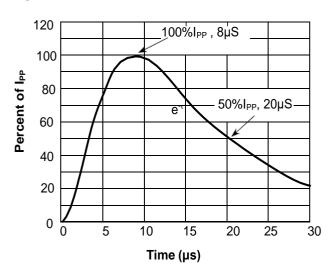


Fig.3 Pulse Waveform-8/20µs





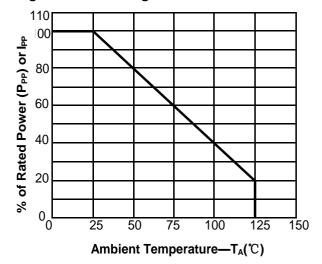
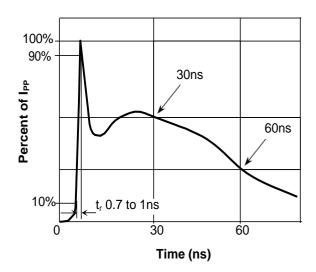


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

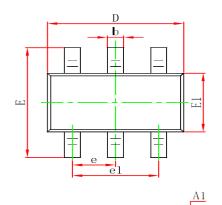


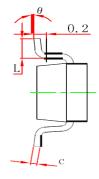


SES3V3T236-6U GOOD-ARK Electronics

Package Outline Dimensions

millimeters

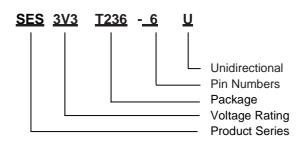




Cumple al	Dimensions in millimeters		Dimensions in inches		
Symbol	Min	Max	Min	Max	
А	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
Е	2.650	2.950	0.104	0.116	
е	0.950(BSC)		0.037	7(BSC)	
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
θ	0°	8°	0°	8°	

C

Part Number System



Revision History

Document Version	Date of release	Discroption of changes
Rev.A	2014.03.25	First issue



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