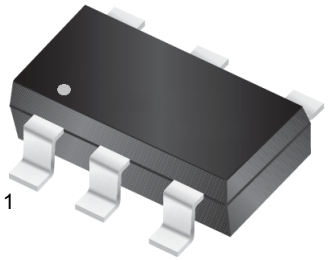
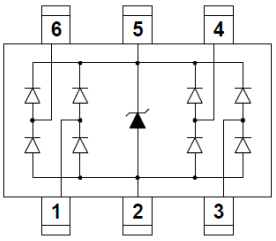
SESLC5VT236L-6U

Features

- 80Watts peak pulse power (tp = 8/20μs)
- SOT23-6 package
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Ultra low capacitance (0.2pF typical I/O to I/O)
- ESD Protection for high-speed data lines to:
  IEC 61000-4-2 ±15KV contact ±15KV air
  IEC 61000-4-4 (EFT) 40A (5/50ns)
  IEC 61000-4-5 (Lightning) 6A (8/20μs)
- RoHS compliant



SOT23-6



Schematic Diagram

Applications

- USB 3.0, USB 2.0, MHL
- HDMI 2.0, Display Port 1.3, eSATA
- Unified Display Interface (UDI)
- Digital Visual Interface (DVI)
- High speed serial interfaces

Absolute Maximum Ratings

(T_A=25℃, Unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Pulse Power (T_P=8/20μS)	P_{PP}	80	W
Peak Pulse Current (t_P = 8/20μS)	I_{PP}	6	A
Junction Temperature	T_J	-55 to +125	℃
Storage temperature	T_{STG}	-55 to +150	℃

Electrical Characteristics

(T_A=25℃, Unless otherwise specified.)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I_T=1mA	6	6.8	8.5	V
Reverse Leakage Current	I_R	V_R=5V		0.01	1	μA
Clamping Voltage(SURGE)	V_C	I_{PP}=6A，T_P=8/20μS		14	16	V
Trigger Voltage(ESD)	V_T	V_{ESD} = +8kV		90		V
Clamping Voltage(ESD)	V_C	V_{ESD} = +8kV		15		V
Junction Capacitance	C_J	V_R=0V,f=1MHz, I/O to I/O		0.2	0.4	pF
	C_J	V_R=0V,f=1MHz, I/O to GND		0.4	0.8	pF

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Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

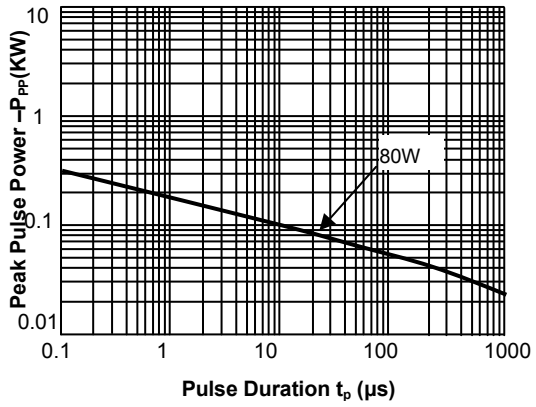


Fig.2 Pulse Derating Curve

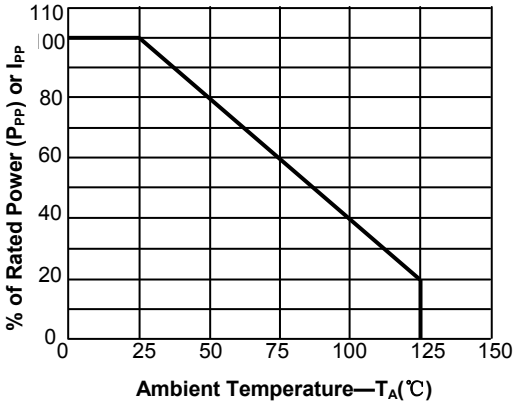


Fig.3 Pulse Waveform-8/20μs

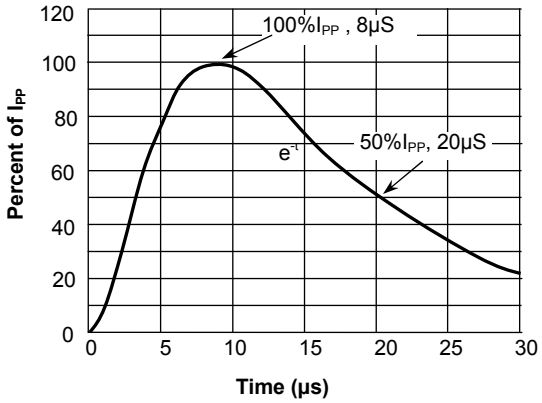


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

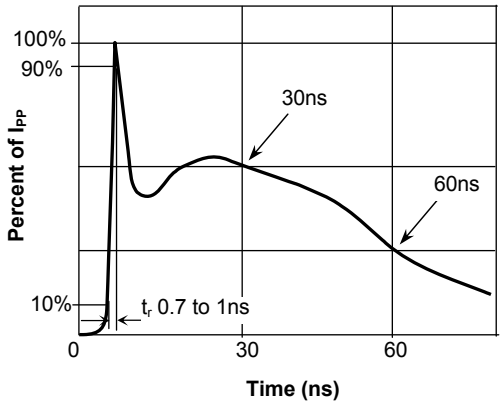


Fig.5 Eye Diagram - HDMI mask at 3.4Gbps per channel (with SESLC5VT236-6U)

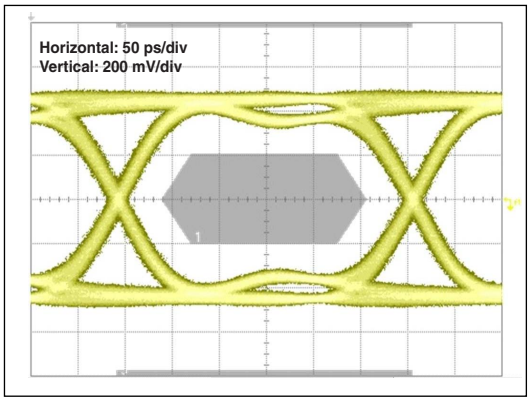
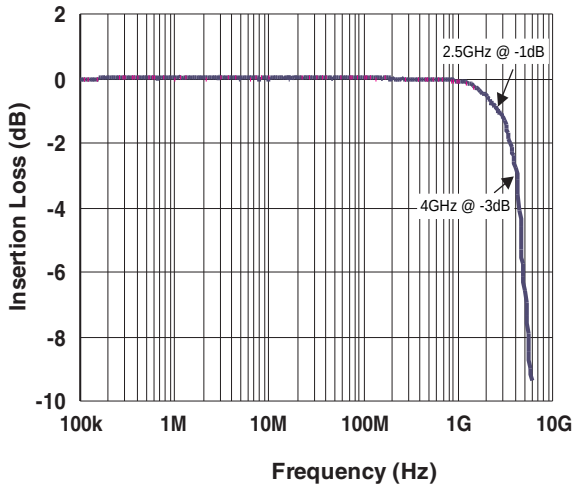
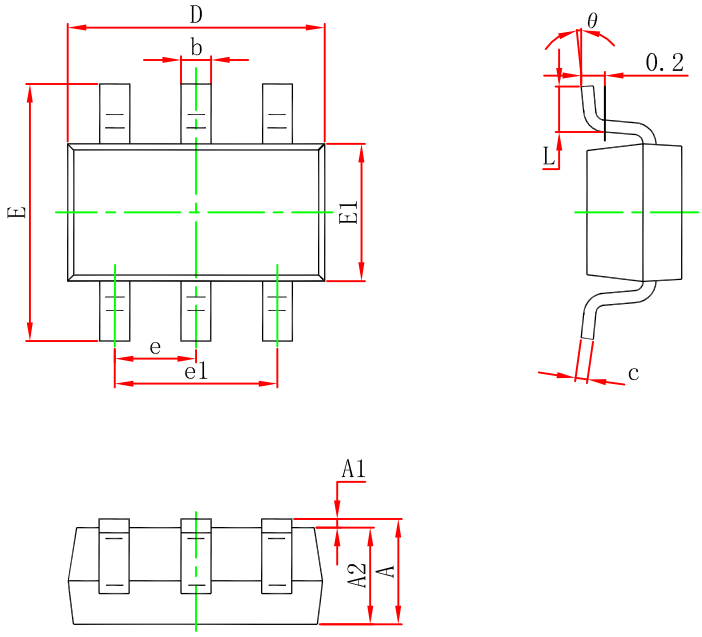


Fig.6 Insertion Loss S21 - I/O to GND



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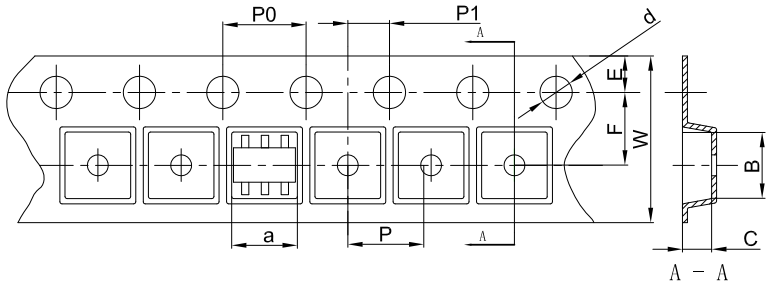
Product Dimensions



Symbol	Dimensions in millimeters		Dimensions in inches	
	Min	Max	Min	Max
A	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
c	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
E	2.650	2.950	0.104	0.116
e	0.950(BSC)		0.037(BSC)	
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°

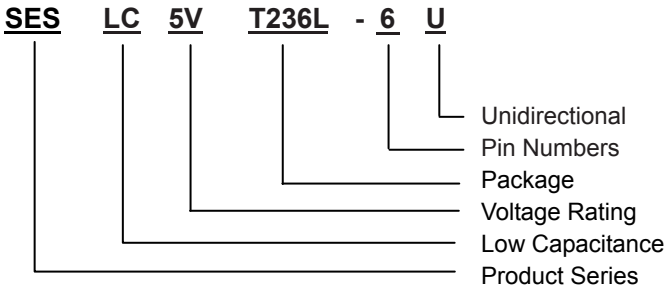
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Package Information

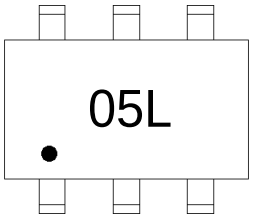


Dimensions are in millimeter										
Pkg type	a	B	C	d	E	F	P0	P	P1	W
SOT-23-6	3.17	3.23	1.37	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

Part Number System



Marking



Order Information

Device	Package	Carrier	Quantity	HSF Status
SESLC5VT236L-6U	SOT23-6	Tape & Reel (7")	3000pcs / Reel	RoHS Compliant

Revision history

Date	Revision	Description of changes
25-March-2014	**A0**	**First issue**

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