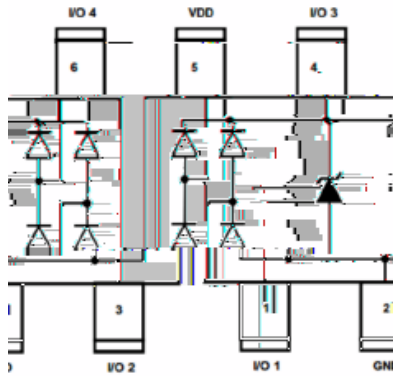




4-Line, Uni-directional, low Capacitance TVS Diode Array



Features

- Stand-off voltage: 3.3V Max
- Transient protection for each line according to
 - IEC61000-4-2(ESD): $\pm 30\text{kV}$ (contact)
 - IEC61000-4-5(surge): 22A (8/20 μs)
- Ultra-low capacitance: $C_J = 1.5\text{ pF}$ typ
- Low leakage current
- Low clamping voltage
- RoHS Compliant

Applications

- LVDS Interfaces
- MagJacks/Integrated Magnetics
- Notebook/Desktops/Service
- Central Office Equipment
- 10/100/1000 Ethernet

Mechanical Characteristics

- Package: SOT-23-6L
- Lead Finish: MatM





ESDSL3304S2

Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	Rating	UNIT
Power (tp = 8/20μs)	P _{pk}	300	W
Peak current (tp = 8/20μs)	I _{pp}	22	A
Surge voltage according to IEC61000-4-2 air discharge	V _{ESD}	±30	KV
Surge voltage according to IEC61000-4-2 contact discharge		±30	KV
Storage temperature	T _J	-55~125	°C
Operating temperature	T _{STG}	-55~150	°C

Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Maximum working voltage	V _{RWM}	V	Any I/O Pin to ground			3.3
Leakage current	I _R	μA	V _{RWM} =5V, any I/O Pin to ground			0.5
Turn-on Voltage	V _{PT}	V	I _T = 2μA, any I/O pin to ground	3.5		
Turn-off Voltage	V _{SB}	V	I _T = 50mA, any I/O pin to ground	2.8		
Clamping voltage ³⁾	V _{CL}	V	I			



ESDSL3304S2

Typical Performance Characteristics (Ta=25°C unless otherwise Specified)

Fig.1 8/20μs waveform per IEC61000-4-5

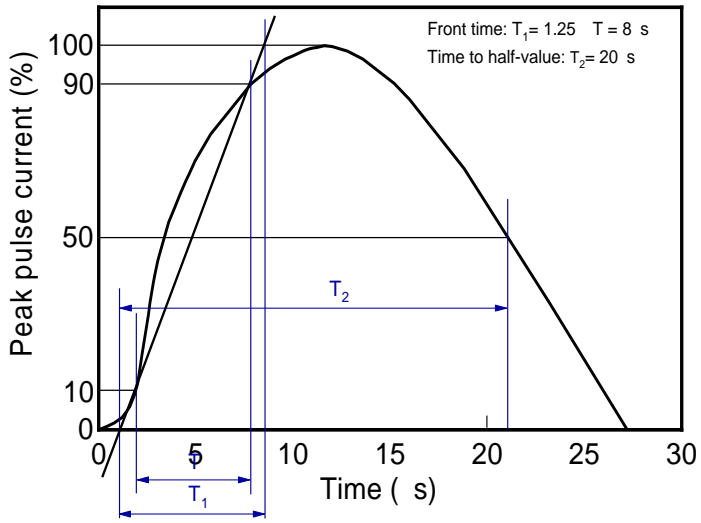


Fig.2 Contact discharge current waveform per IEC61000-4-2

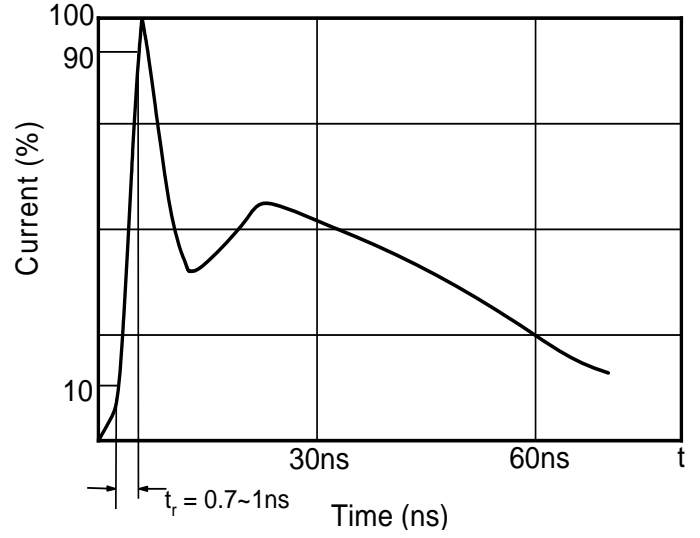
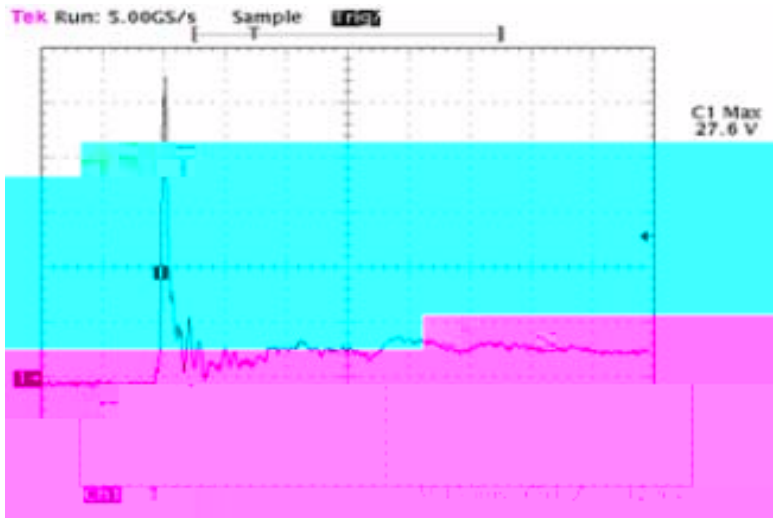
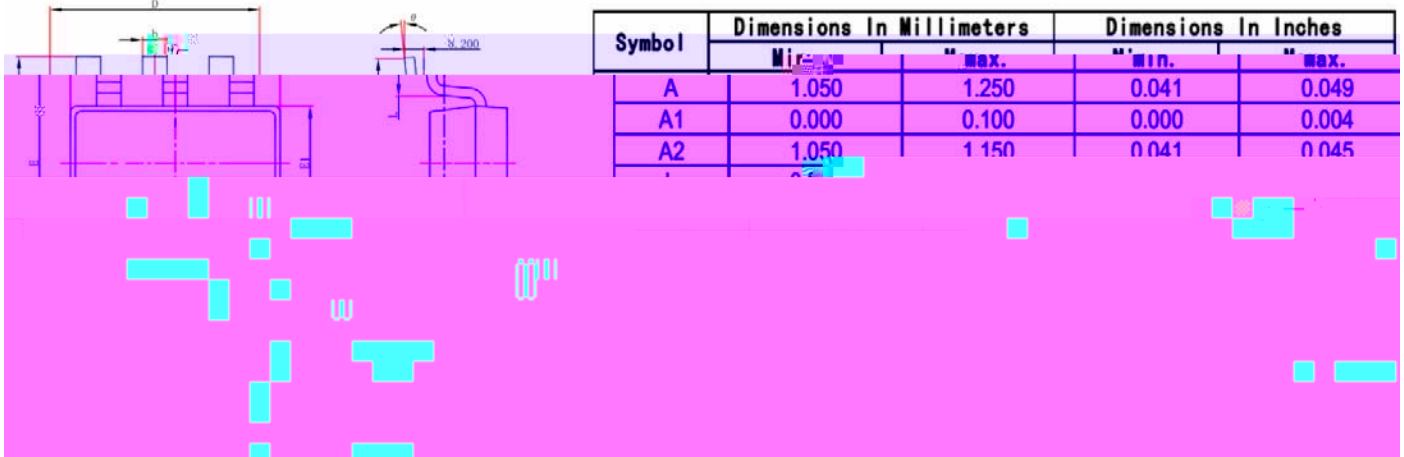


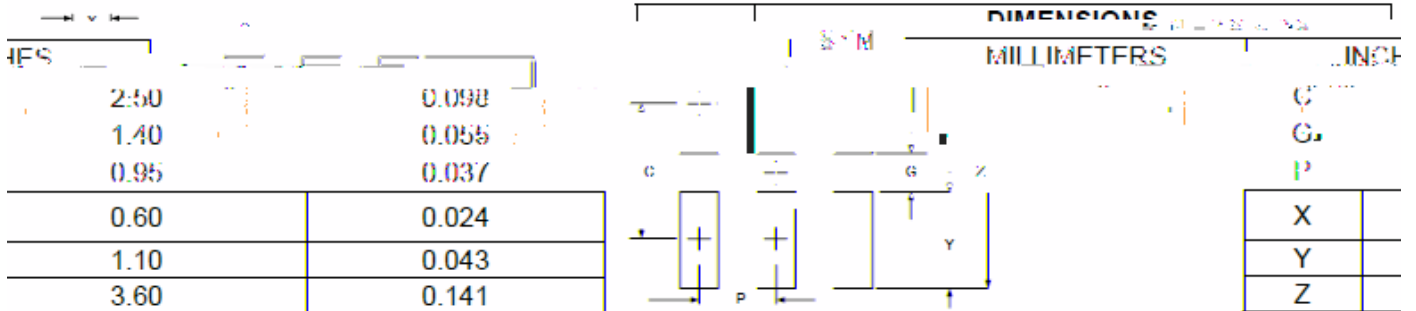
Fig.7 ESD clamping - I/O to GND
 (+8kV contact discharge per IEC61000-4-2)



SOT-23 6L Package Outline Drawing



Recommended PCB Layout





Disclaimer