

Ultra Low Capacitance ESD Protection Array

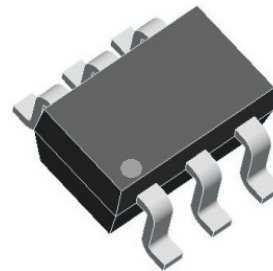
FEATURES

- Package optimized for high-speed lines
- Small package(2.9mm*2.8mm*1.1mm)
- Protects four data lines and one Vcc line
- Low capacitance: 0.20pF (I/O to I/O)
- Low leakage current
- Transient protection for high-speed data lines
IEC 61000-4-2(ESD) $\pm 25\text{KV}$ (Air)
 $\pm 20\text{KV}$ (Contact)
IEC 61000-4-4(EFT)40A(5/50ns) Cable
Discharge Event(CDE)
- Low clamping voltage
- Each I/O pin can withstand over 1000 ESD strikes for $\pm 8\text{KV}$ contact discharge

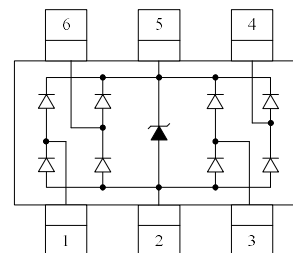
MACHANICAL DATA

- SOT-23-6L package
- Flammability Rating: UL 94V-0
- Terminal: Matte tin plated.
- Packaging: Tape and Reel
- High temperature soldering guaranteed: $260^{\circ}\text{C} / 10\text{s}$
- Reel size: 7 inch

SOT-23-6L



CIRCUIT DIAGRAM



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

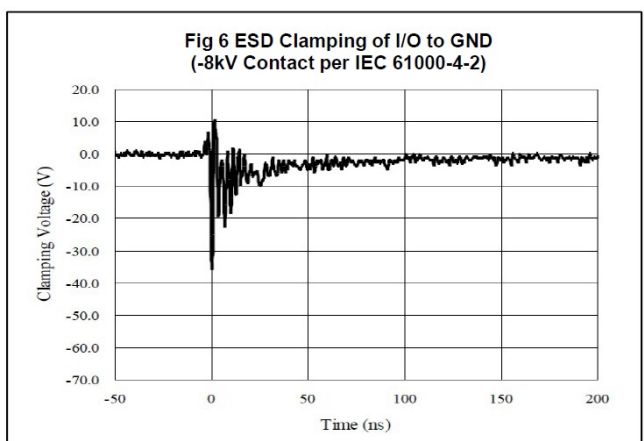
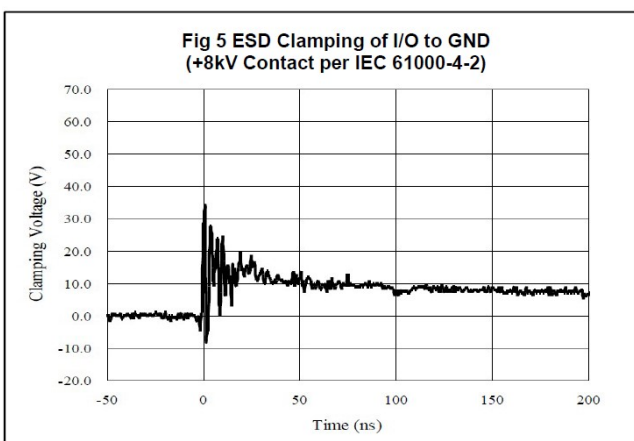
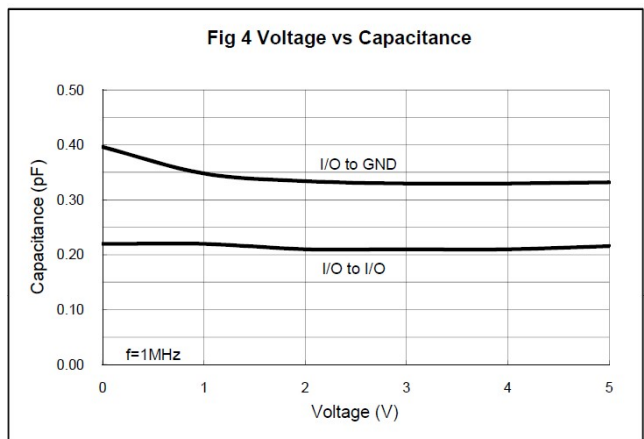
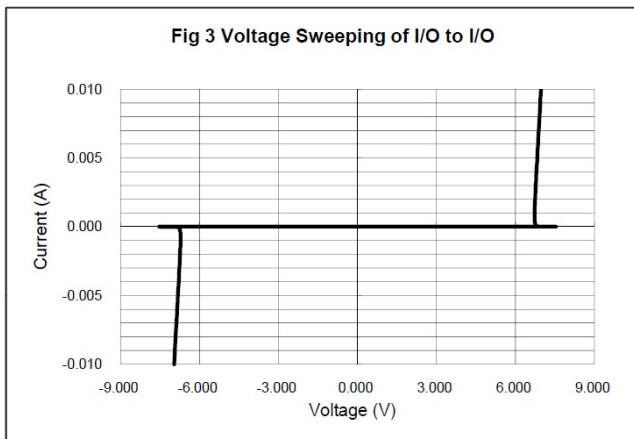
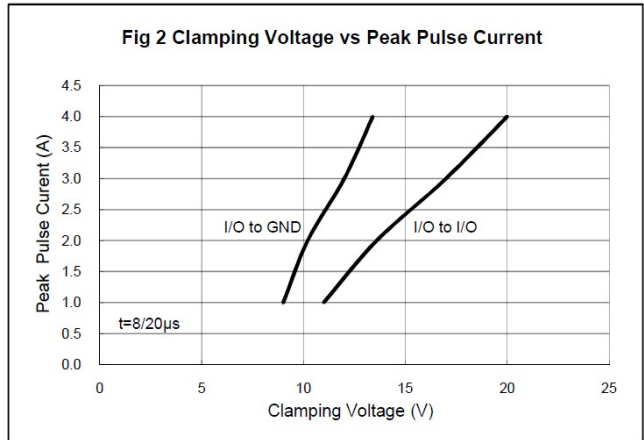
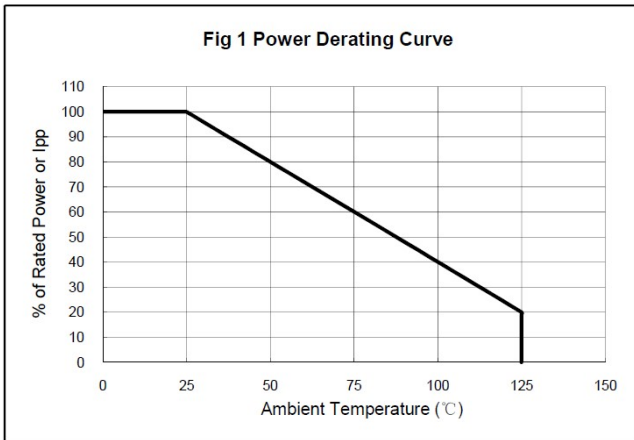
Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (8/20μs)	60	W
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±25 ±20	kV
T _{OPT}	Operating Temperature	-55/+125	°C
T _{STG}	Storage Temperature	-55/+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

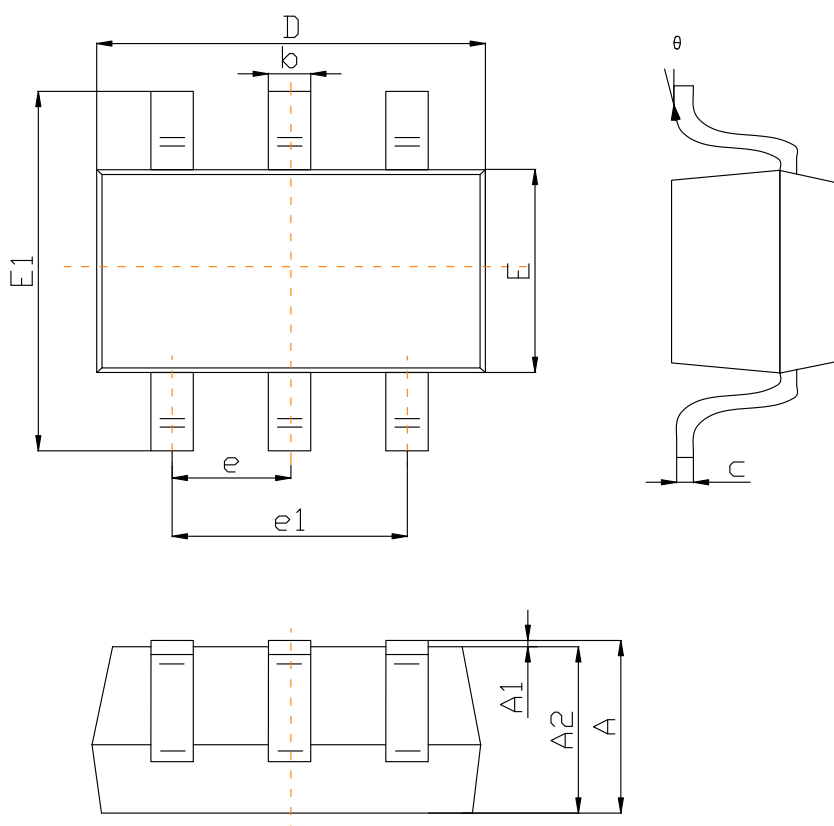
Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V _{RWM}	Reverse Working Voltage	Any I/O pin to GND			5.0	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA Any I/O pin to GND	6.0		9.0	V
I _R	Reverse Leakage Current	V _{RWM} = 5V Any I/O pin to GND			1.0	μA
V _C	Clamping Voltage	I _{PP} = 1A, t _p = 8/20μs Any I/O pin to GND			10	V
		I _{PP} = 4A, t _p = 8/20μs Any I/O pin to GND			15	V
		I _{PP} = 8A, t _p = 8/20μs V _{CC} pin to GND			15	V
C _{ESD}	Parasitic Capacitance	V _R = 0V, f = 1MHz Between I/O and I/O		0.20	0.30	pF
		V _R = 0V, f = 1MHz Between I/O and GND		0.45	0.50	pF
		V _R = 0V, f = 1MHz Between V _{CC} and GND		0.80		pF

Note: I/O Pins are pin 1,3,4,6. Pin 5 is V_{CC}. Pin 2 is GND.

TYPICAL CHARACTERISTICS



SOT-23-6L PACKAGE OUTLINE DRAWING



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		0.004
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
E	1.500	1.700	0.059	0.067
E1	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
	0°	8°	0°	8°

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