



# Product data sheet

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#### FEATURES

\*Transient protection for high-speed data lines

- IEC 61000-4-2(ESD) ±25KV(Air)
  - ±20KV(Contact)
- IEC 61000-4-4(EFT)40A(5/50ns)
- Cable Discharge Event(CDE)
- \*Package optimized for high-speed lines
- Ultra-small package(3.8mm\*1.0mm\*0.5mm)
- **Protects eight data lines**
- Low capacitance: 0.2pF (I/O to I/O)
- **A Low leakage current**
- Low clamping voltage
- Each I/O pin can withstand over 1000 ESD strikes for ±8KV contact discharge

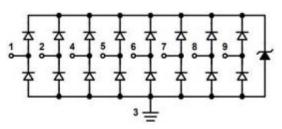
#### MACHANICAL DATA

- OFN3810-9L package
- ♦Flammability Rating: UL 94V-0
- ♦Terminal: Matte tin plated.
- Packaging: Tape and Reel
- High temperature soldering guaranted:260 C/10s
- Reel size: 7 inch

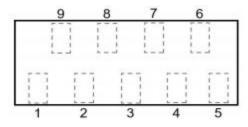
#### **APPLICATIONS**

- **SATA and eSATA interface**
- LVDS interfaces
- \*Desktops, Servers and Notebooks
- MDDI Ports
- Display Ports
- High Definition Multi-Media Interface (HDMI)
- Digital Visual Interface (DVI)

### CIRCUIT DIAGRAM



# **PIN CONFIGURATION**



DFN3810-9L



#### **ABSOLUTE MAXIMUM RATING**

Symbol	Parameter	Value	Units
PPP	Peak Pulse Power (8/20µs)	60	w
	ESD per IEC 61000-4-2 (Air)	±25	
VESD	ESD per IEC 61000-4-2 (Contact)	±20	kV
Торт	Operating Temperature	-55/+125	°C
Тѕтс	Storage Temperature	-55/+150	°C

# ELECTRICAL CHARACTERISTICS (Tamb=25 °C)

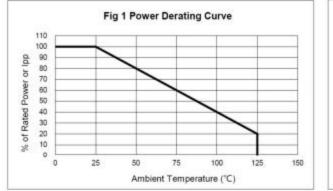
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
VRWM	Reverse Working Voltage	Any I/O pin to GND			5.0	V
VBR	Reverse Breakdown Voltage	I⊤ = 1mA Any I/O pin to GND	6.0		<del>9</del> .0	v
R	Reverse Leakage Current	V <sub>RWM</sub> = 5V Any I/O pin to GND			1.0	μ <b>A</b>
Vc	Clamping Voltage	I <sub>PP</sub> = 1A, t <sub>P</sub> = 8/20µs Any I/O pin to GND			10	v
Vc	Clamping Voltage	I <sub>PP</sub> = 4A, t₀ = 8/20µs Any I/O pin to GND			15	v
CESD	Parasitic Capacitance	V <sub>R</sub> = 0V, f = 1MHz Between I/O and GND		0.4	0.5	pF
CESD	Parasitic Capacitance	V <sub>R</sub> = 0V, f = 1MHz Between I/O and I/O		0.2	0.3	pF

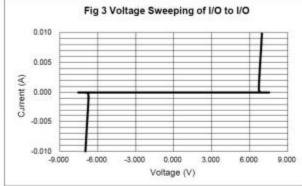
Note: I/O pins are pin 1,2,4,5, 6,7,8,9; GND pins are pin 3.

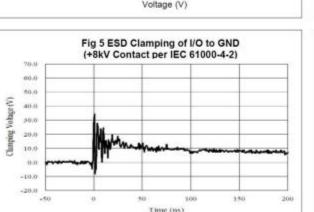


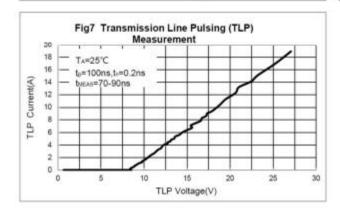


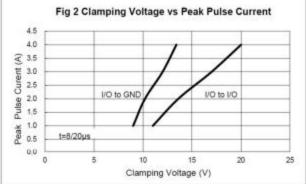
## ELECTRICAL CHARACTERISTICS CURVE

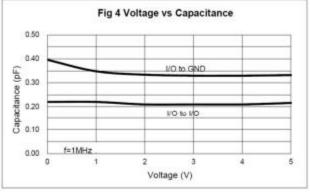


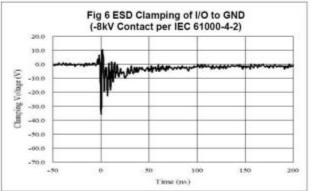












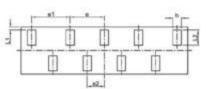




# **DFN3810-9 PACKAGE OUTLINE DIMENSIONS**







UNIT	A	A1	b	D	E	е	e1	e2	L1	L2
mm	0.475 0.525	0 0.05	0.15 0.25	3.70 3.90	0.90 1.10	0.80	0.90	0.40	0.025 0.075	0.25

# **REEL SPECIFICATION**

P/N	PKG	QTY
AZ1045-08F-MS	DFN3810-9L	3000



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