

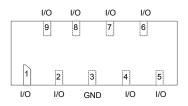
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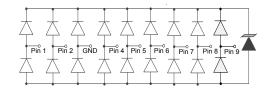
Ultra Low Capacitance ESD TVS Array in DFN3810

Features

- 30 Watts peak pulse power (tp = 8/20µs)
- DFN3810 package
- Unidirectional configurations
- Protect up to 8-lines
- Low clamping voltage
- Low Leakage current
- Low capacitance (Cj=0.2pF typ. I/O to I/O)
- IEC 61000-4-2 ±12KV contact ±15KV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 3A (8/20µs)







Mechanical Data

- Case: DFN3810 (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Applications

- USB 3.0/3.1,Type C
- HDMI 1.4/2.0, Display Port 1.3
- Unified Display interface
- Digital visual interface

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
ESD Air Discharge per IEC 61000-4-2	V _{ESD}	± 15	kV
ESD Contact Discharge per IEC 61000-4-2	V _{ESD}	± 12	kV
Peak pulse power 8/20 µs waveform	P _{PPM}	30	W
Peak pulse current 8/20 µs waveform	I _{PPM}	3	A
Operating Temperature	T _J	- 55 to + 125	°C
Storage Temperature	T _{STG}	- 55 to + 125	°C

Electrical Characteristics

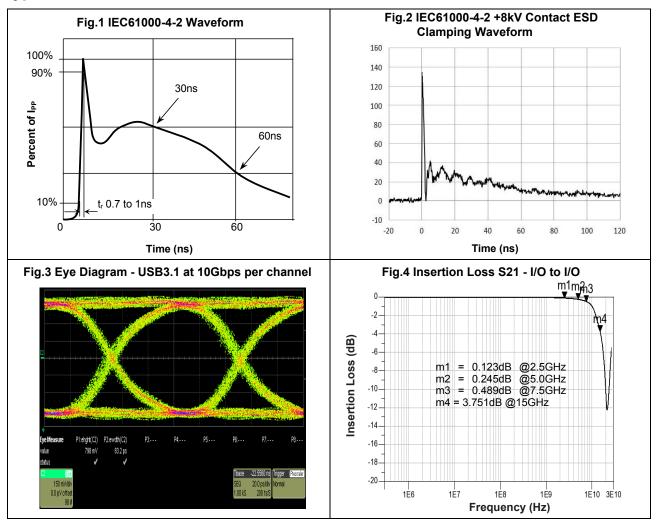
(T_A = 25 °C unless otherwise specified)

Parameter	Test Conditions	Synbol	Min.	Тур.	Max.	Unit
Reverse Stand-Off Voltage		V_{RWM}			5	V
Reverse Leakage Current	at V _R = 5 V	IR		0.1	0.5	μΑ
Clamping voltage	at I _{PP} = 3 A, Acc. IEC 61000-4-5	V _C			10	V
Reverse Breakdown Voltage	at I _R = 1 mA	V_{BR}	6.0	7.2	9.5	V
Canacitanas	at V _R = 0 V ; f = 1 MHz,I/O to I/O	C _j		0.15		pF
Capacitance	at $V_R = 0 V$; $f = 1 MHz,I/O$ to GND	C _i		0.2		pF

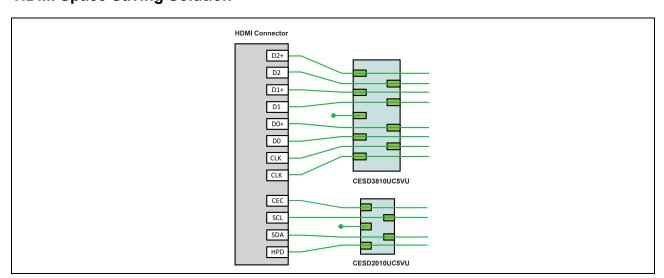


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$\textbf{Typical Characteristics} \ \, (\textbf{T}_{amb} = 25 \, \, ^{\circ}\text{C unless otherwise specified})$



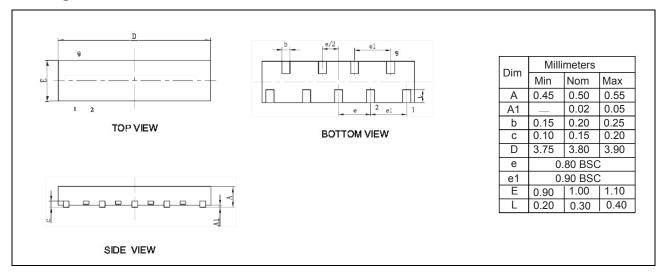
HDMI Space Saving Solution



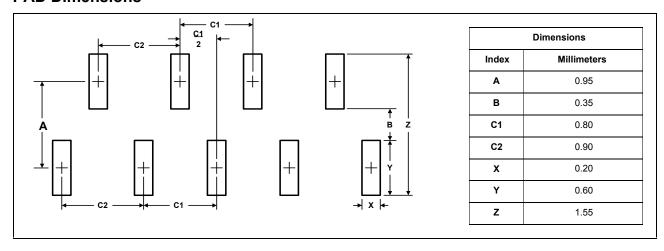


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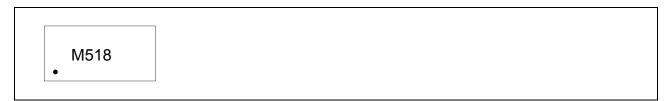
Package Dimensions



PAD Dimensions



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD3810UC5VU	DFN3810	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2014	1.0	Initial release



CESD3810UC5VU

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