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CESD1910UC5VU

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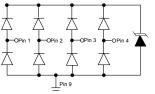
Ultra Low Capacitance ESD/TVS Array in DFN1910

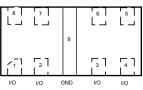
Features

- 35Watts peak pulse power (tp = 8/20µs)
- DFN 1910 Package
- Protect up to 4-lines
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Low capacitance (0.2pF typical I/O to I/O)
- ESD Protection for high-speed data lines to: IEC 61000-4-2 ±8KV contact ±15KV air IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 3.5A (8/20µs)









Mechanical Data

- Case: DFN1910 (plastic package). Lead free; RoHS compliant; Halogen free
- 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
- Microcontroller Input Protection

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	35	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	8/15	kV
Peak Pulse Current (tP = 8/20µS)	IPP	3.5	А
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

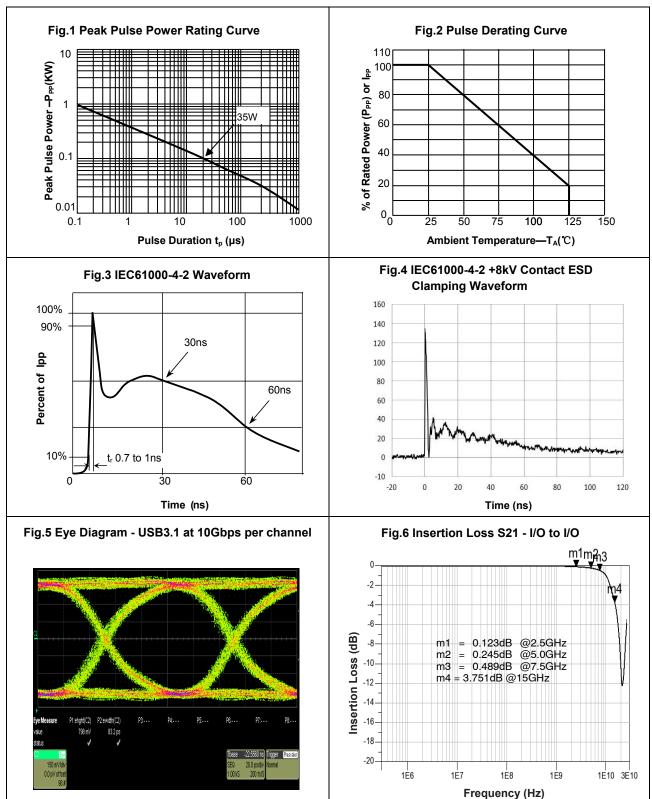
(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I⊤=1mA	5.5	7.8		V
Reverse Leakage Current	I _R	V _R =5V		0.1	0.5	uA
Clamping Voltage(SURGE)	V _C	I _{PP} =3.5A,T _P =8/20µS			10	V
Junction Capacitance	CJ	V _R =0V,f=1MHz, I/O to I/O		0.2		pF
Surveyor Capacitance	CJ	V _R =0V,f=1MHz, I/O to GND		0.35		pF



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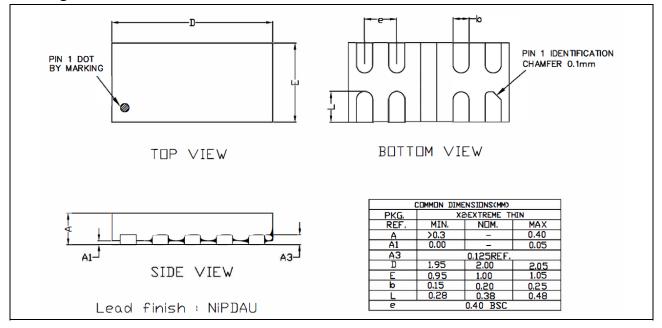


Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

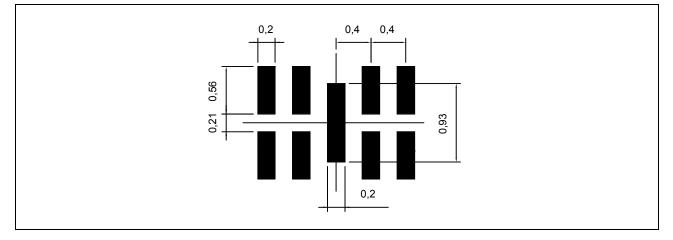


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Package Dimensions



PAD Dimensions



Ordering information

V					
Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
CESD1910UC5VU	0544T	DFN1910	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-201.	1.0	Initial release

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