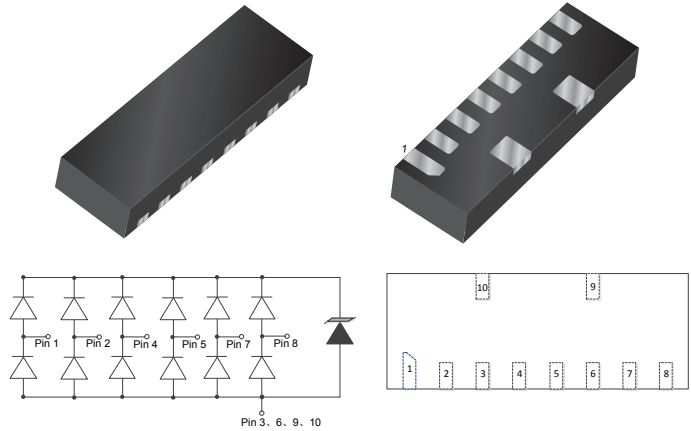


### Features

- 30Watts peak pulse power ( $t_p = 8/20\mu s$ )
- DFN3310-10 Package
- Protect up to 6-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  $\pm 8KV$  contact  $\pm 15KV$  air IEC  
61000-4-4 (EFT) 40A (5/50ns)  
IEC 61000-4-5 (Lightning) 3A (8/20 $\mu s$ )



### Mechanical Data

- **Case:** DFN3310-10 (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

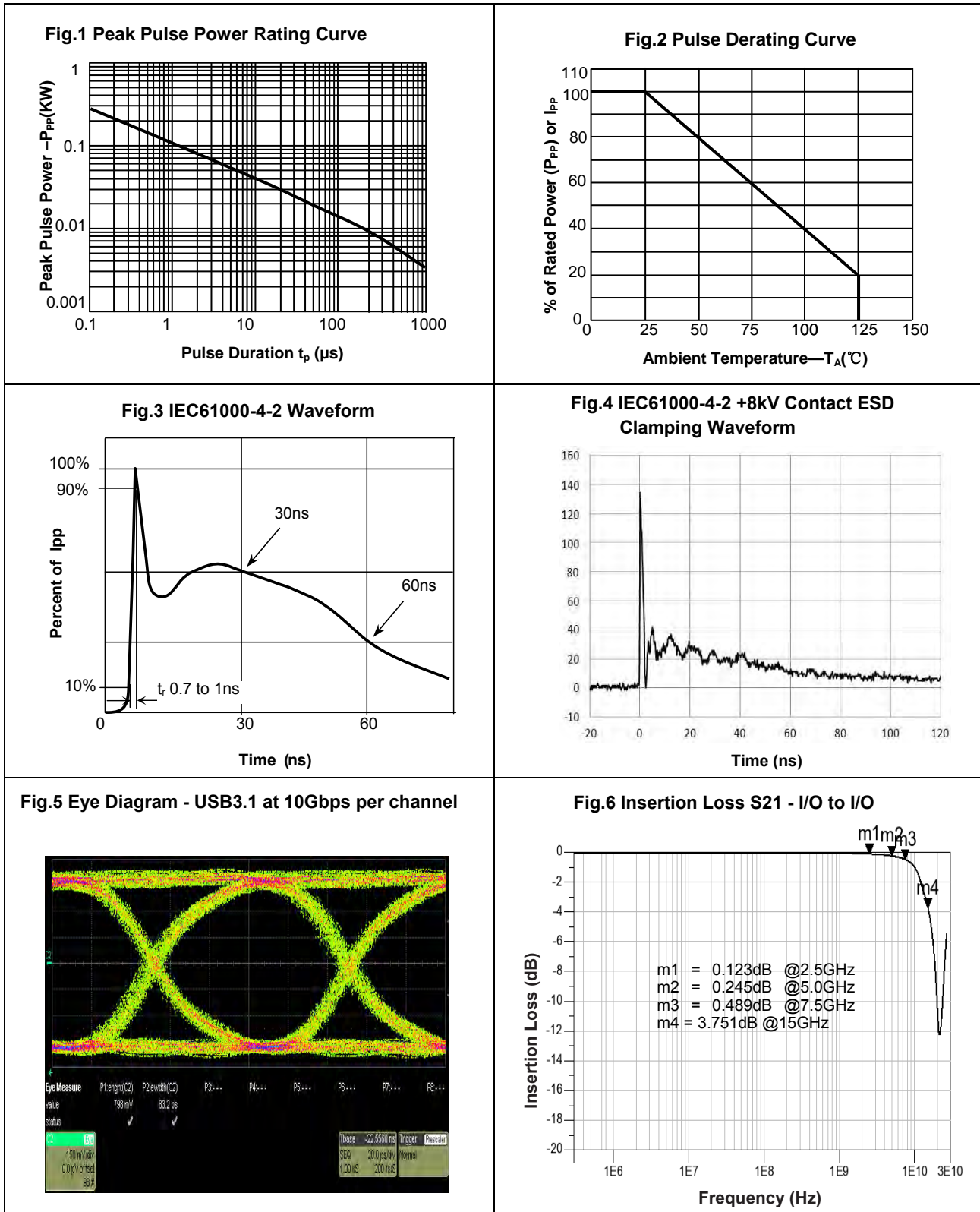
Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_P=8/20\mu S$ )	P <sub>PP</sub>	30	W
ESD contact/air discharge (IEC-61000-4-2)	V <sub>ESD</sub>	8/15	kV
Peak Pulse Current ( $t_P = 8/20\mu S$ )	I <sub>PP</sub>	3	A
Junction Temperature	T <sub>J</sub>	-55 to +125	°C
Storage temperature	T <sub>STG</sub>	-55 to +150	°C

### Electrical Characteristics

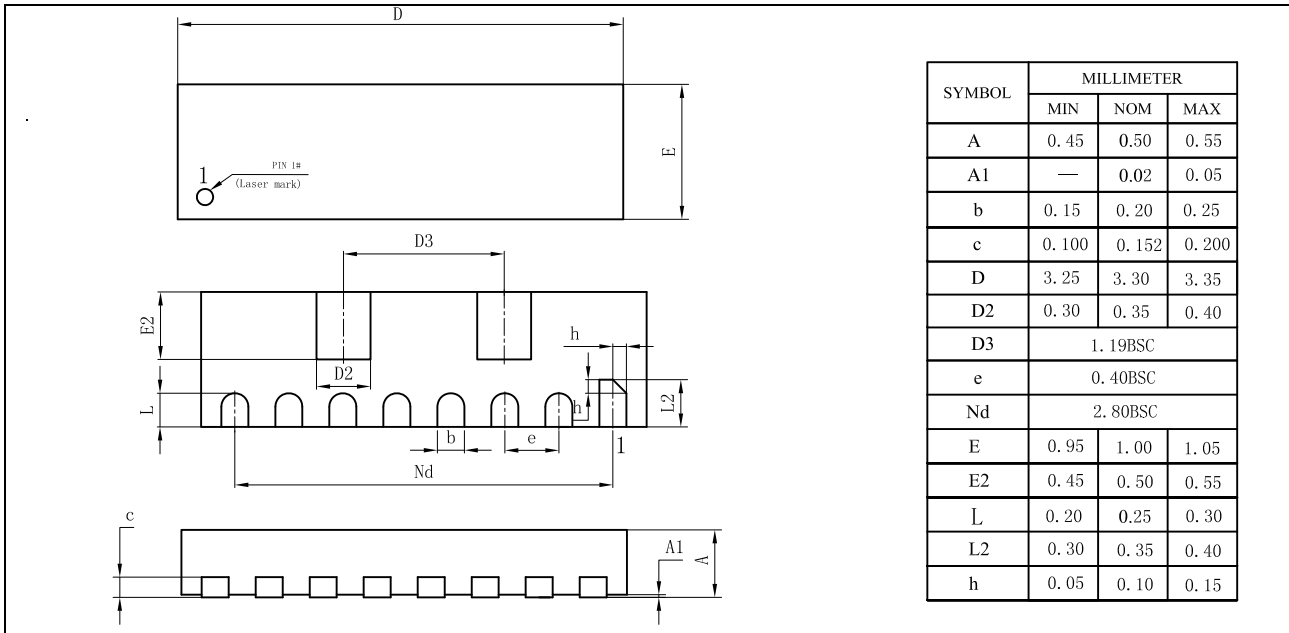
(T<sub>A</sub> = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V <sub>RWM</sub>				5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	6	7.2	9.5	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =5V		0.1	0.5	uA
Clamping Voltage(SURGE)	V <sub>C</sub>	I <sub>PP</sub> =3A, T <sub>P</sub> =8/20 $\mu S$		10		V
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz, I/O to I/O		0.2		pF
	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz, I/O to GND		0.4		pF

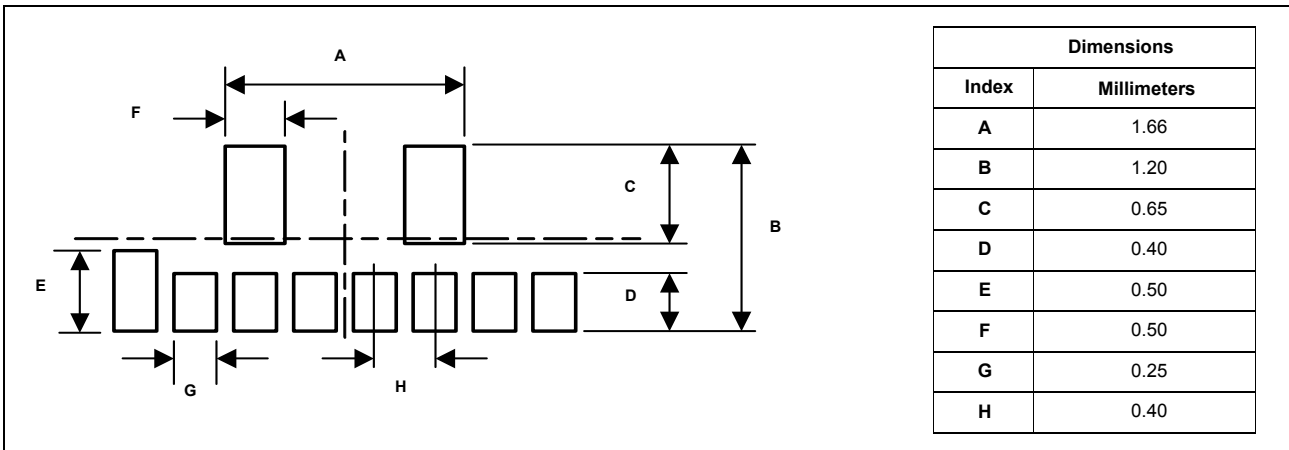
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



### Package Dimensions



### PAD Dimensions



### Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
YEU33CA0503AV	L5U	DFN3310-10	Tape and reel	3000pcs / reel	EIA STD RS-481