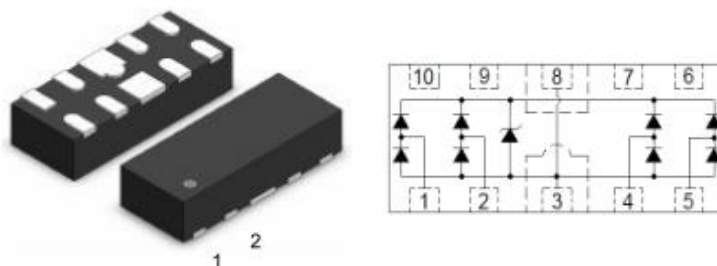


Features

- ◆ 24Watts peak pulse power ($t_p = 8/20\mu s$)
- ◆ DFN2510 Package
- ◆ Unidirectional configurations
- ◆ Solid-state silicon-avalanche technology
- ◆ Low clamping voltage
- ◆ Low leakage current
- ◆ Low capacitance (0.15pF typical I/O to I/O)
- ◆ ESD Protection for high-speed data lines to:
 - IEC 61000-4-2 $\pm 10KV$ contact $\pm 15KV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 3A (8/20 μs)



Applications

- ◆ USB 3.1 · USB 3.0, MHL
- ◆ HDMI 2.0, Display Port 1.3 · eSATA
- ◆ Unified Display interface (UDI)
- ◆ Digital visual interface (DVI)
- ◆ High speed serial interfaces

Mechanical data

- ◆ Case: DFN2510 (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

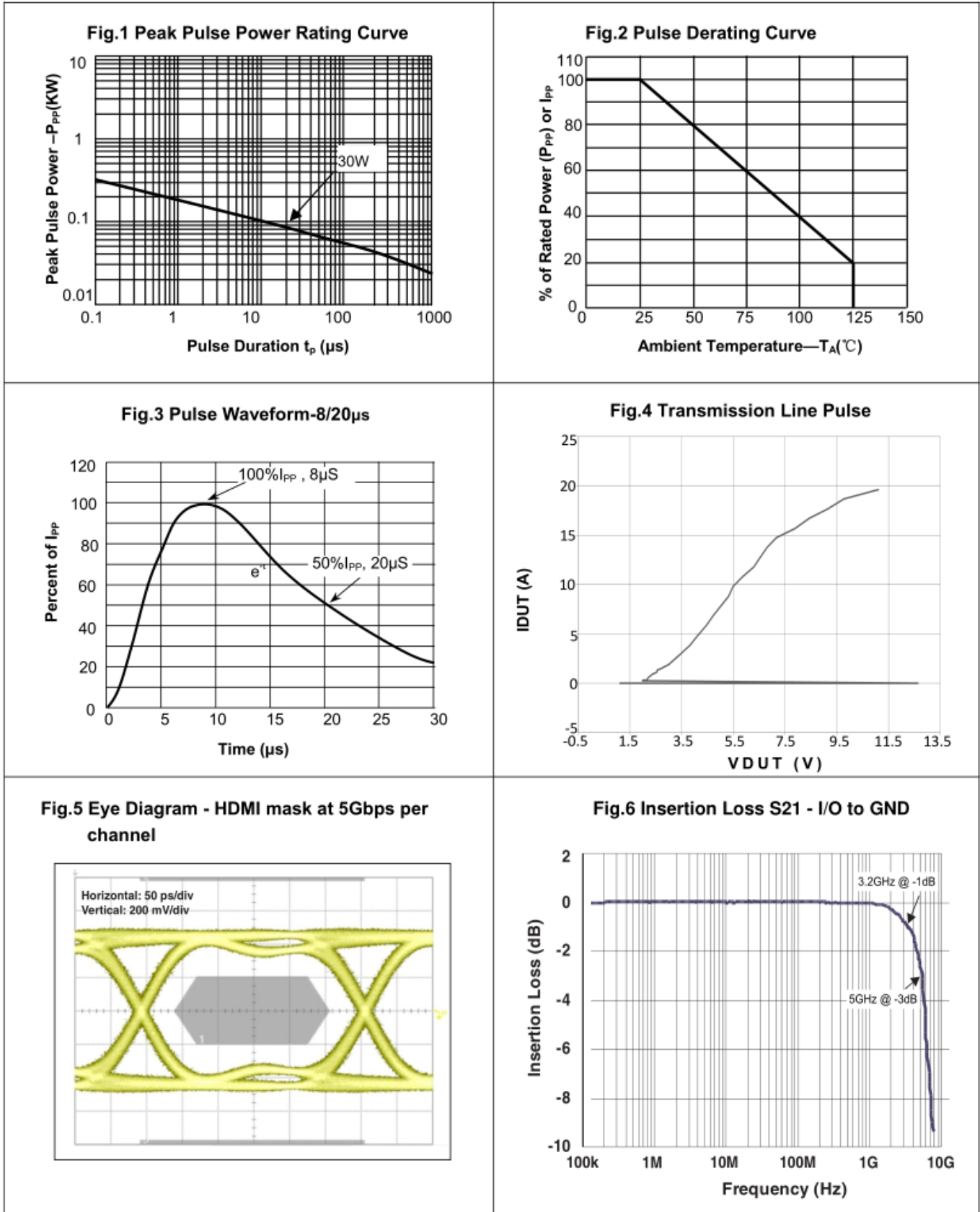
Absolute Maximum Ratings (Ratings at 25 °C, ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_p=8/20\mu s$)	P_{PP}	24	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	10/15	kV
Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	3.0	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

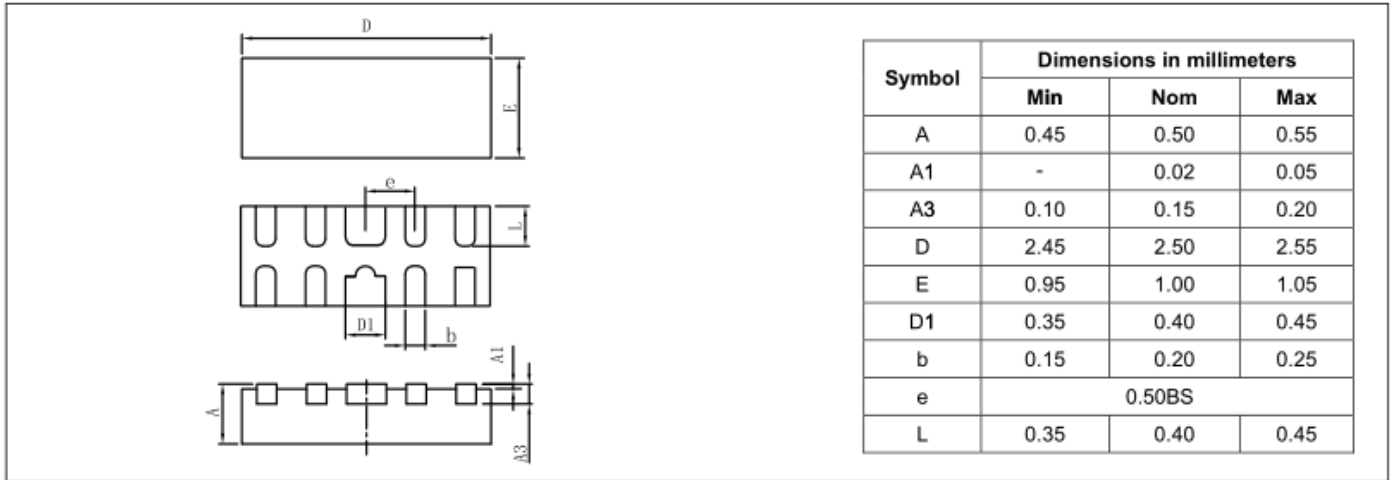
Electrical Characteristics ($T_A = 25$ °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				3.3	V
Holding Voltage	V_H	$I_T = I_H$	2.0		3.0	V
Holding Current	I_H		20			mA
Reverse Leakage Current	I_R	$V_{RWM}=3.3V$			0.5	uA
Clamping Voltage	V_C	$I_{PP}=3A, t_p=8/20\mu s$			4.5	V
Clamping Voltage (TLP)	V_C	$I_{PP}=16A, T_p=100ns$		6.3		V
Dynamic Resistance	R_{dyn}	$I_{TLP}=0A \sim 20A$		0.25		
Junction Capacitance	C_J	$V_R=0V, f=1MHz, I/O$ to I/O		0.25		pF
	C_J	$V_R=0V, f=1MHz, I/O$ to GND		0.55		pF

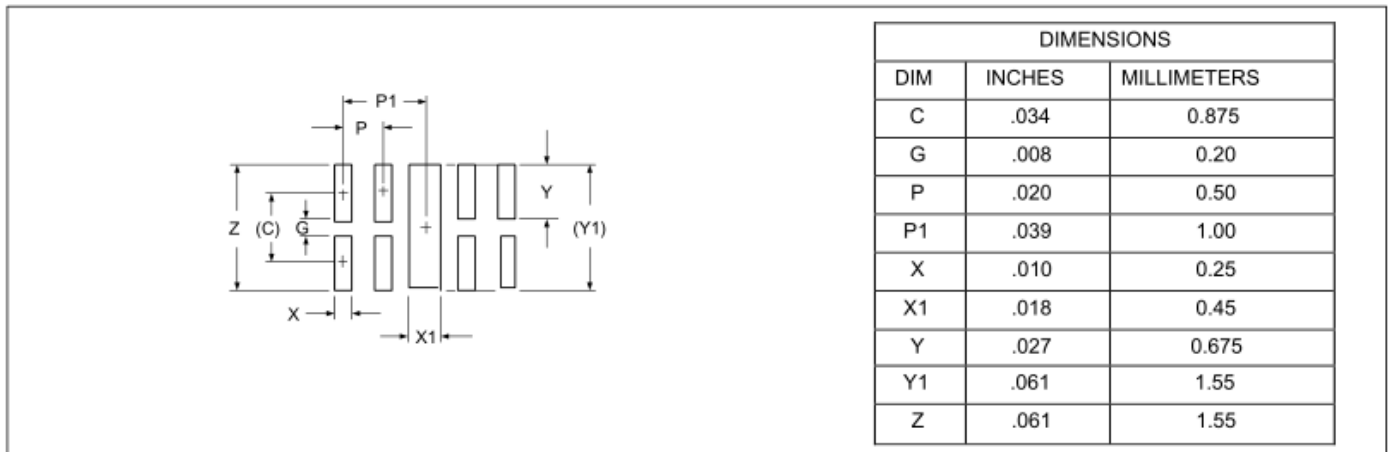
Typical Characteristics ($T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)



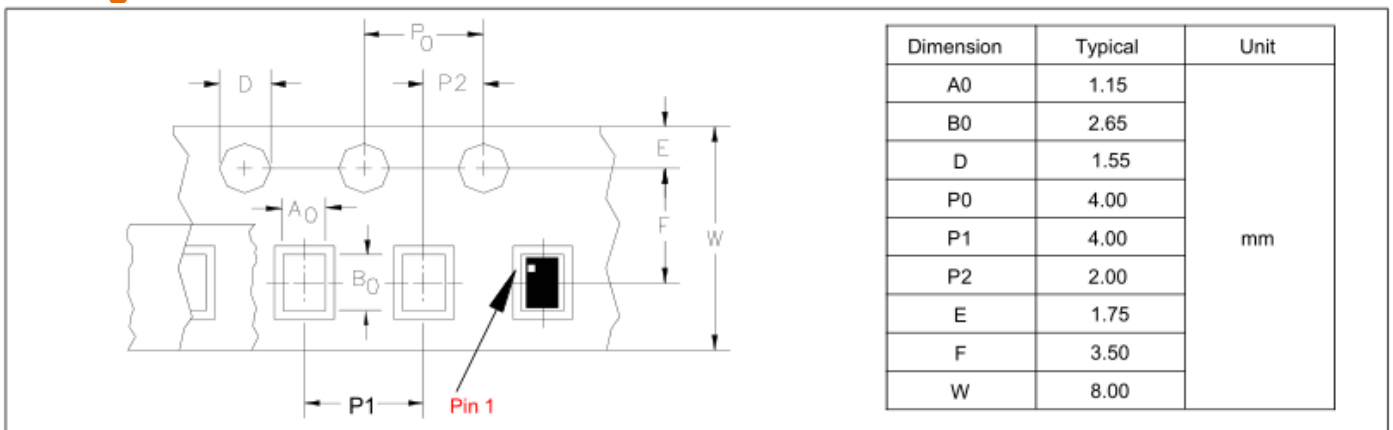
Package Dimensions



Pad Dimensions



Package Information



Ordering Information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
CESD10U3324PS	33U	DFN2510	Tape and reel	3000pcs / reel	EIA STD RS-481