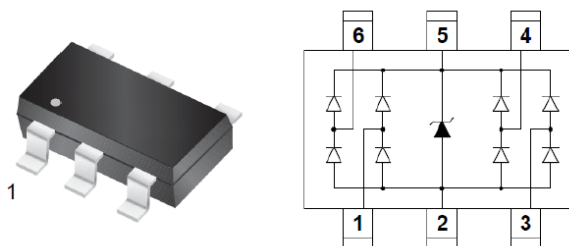


Features

- ◆ 100Watts peak pulse power ($t_p = 8/20\mu s$)
 - ◆ SOT23-6 Package
 - ◆ Unidirectional configurations
 - ◆ 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 $\pm 15kV$ contact $\pm 15kV$ air
 IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 6A (8/20 μs)



Applications

- ◆ USB 3.0, USB 2.0, MHL
- ◆ HDMI 2.0, Display Port 1.3, eSATA
- ◆ Unified Display Interface (UDI)
- ◆ Digital Visual Interface (DVI)
- ◆ High speed serial interfaces

Mechanical Data

- ◆ Case: SOT23-6 (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

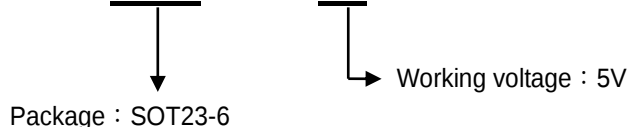
Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu s$)	P_{PP}	100	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	15/15	kV
Peak Pulse Current ($t_P = 8/20\mu s$)	I_{PP}	6.0	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Ordering/Mark information

CES T236 LC 5V US



Order code	Package	Marking	Base quantity	Packaging specification
CEST236LC5VUS	SOT23-6	05	3000pcs / reel	EIA STD RS-481

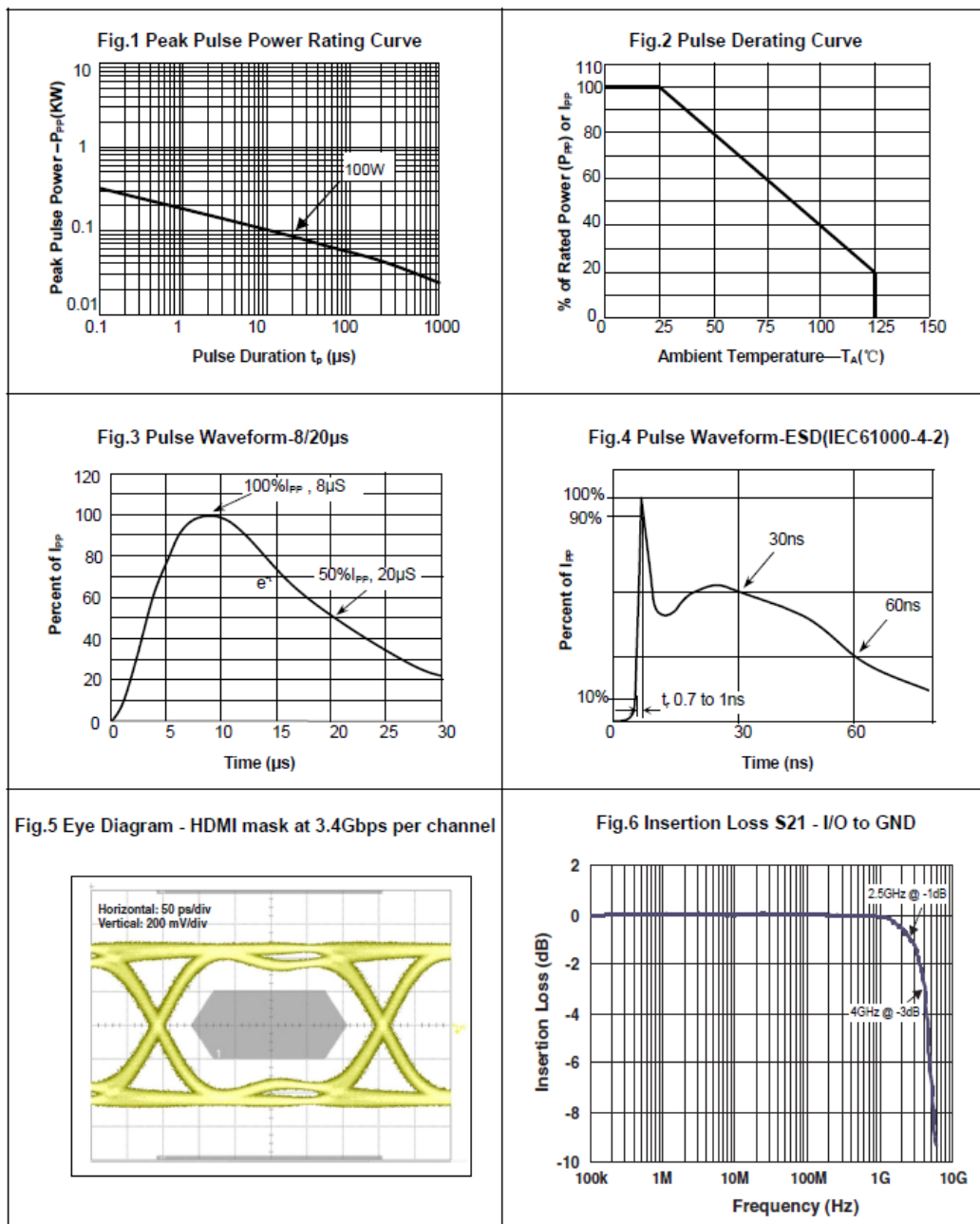


Low Capacitance ESD TVS Array in SOT23-6

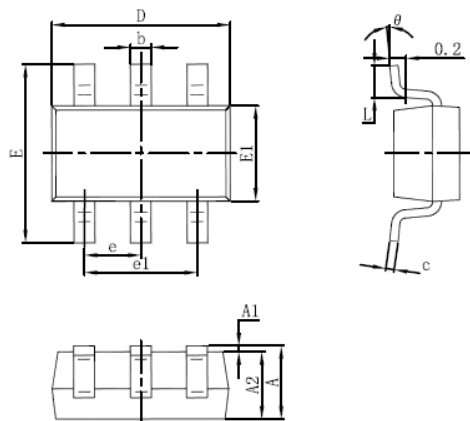
Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$	6	6.8	8.5	V
Reverse Leakage Current	I_R	$V_R = 5\text{V}$		0.01	1	μA
Clamping Voltage(SURGE)	V_C	$I_{PP} = 6\text{A}$, $T_P = 8/20\mu\text{S}$		14	16	V
Clamping Voltage(ESD)	V_C	$V_{ESD} = +8\text{kV}$		15		V
Junction Capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$, I/O to I/O		0.2		pF
	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$, I/O to GND		0.4		pF

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



Package Dimensions



Symbol	Dimensions in millimeters	
	Min	Max
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.300	0.500
c	0.100	0.200
D	2.820	3.020
E1	1.500	1.700
E	2.650	2.950
e	0.950(BSC)	
e1	1.800	2.000
L	0.300	0.600
θ	0°	8°