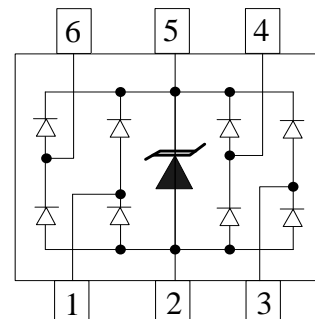
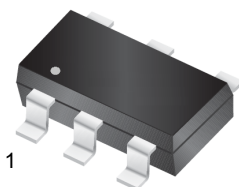


ESD TVS Array in SOT363

Features

- 120Watts peak pulse power ($t_p = 8/20\mu s$)
- SOT363 Package
- Unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Normal capacitance (0.5pF typical)
- ESD Protection for high-speed data lines to:
IEC 61000-4-2 $\pm 30KV$ contact $\pm 30KV$ air
IEC 61000-4-4 (EFT) 40A (5/50ns)
IEC 61000-4-5 (Lightning) 6A (8/20 μs)



Mechanical Data

- **Case:** SOT363 (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

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

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}	120	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	30/30	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

Electrical Characteristics

($T_A = 25\text{ °C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	6			V
Reverse Leakage Current	I_R	$V_R=5V$			1	μA
Clamping Voltage(SURGE)	V_C	$I_{PP}=6A, T_p=8/20\mu s$			20	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		0.5		pF

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

Fig.1 Peak Pulse Power Rating Curve

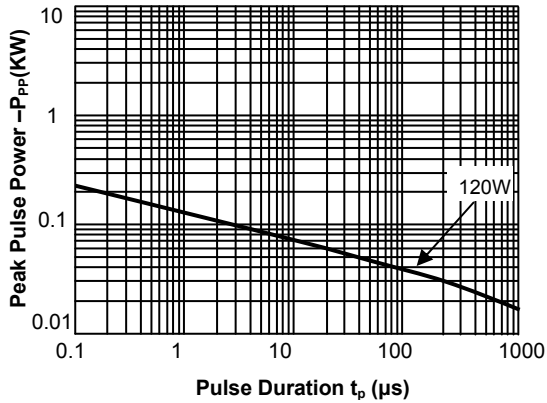


Fig.2 Pulse Derating Curve

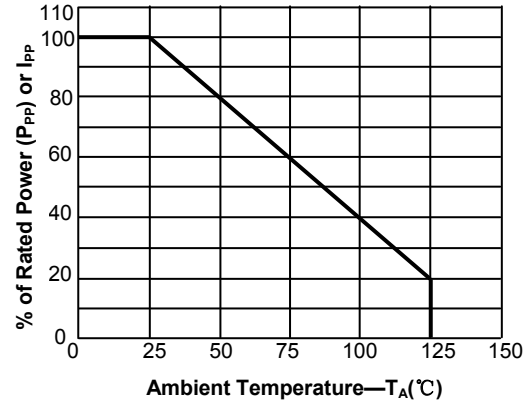


Fig.3 Pulse Waveform-8/20μs

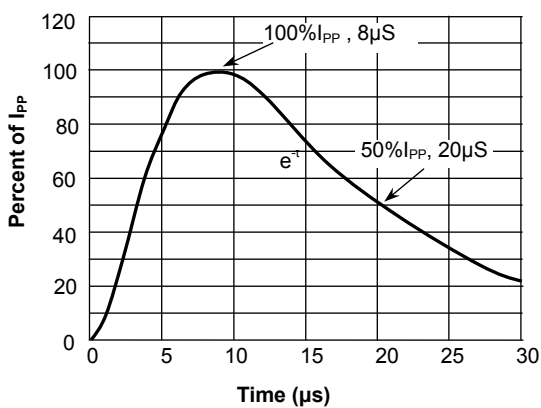
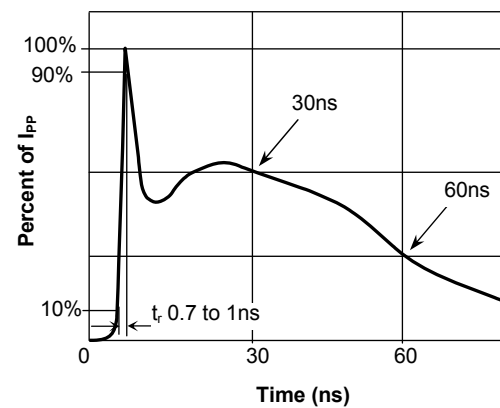
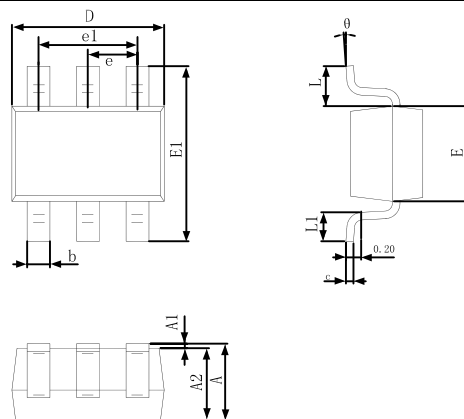


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

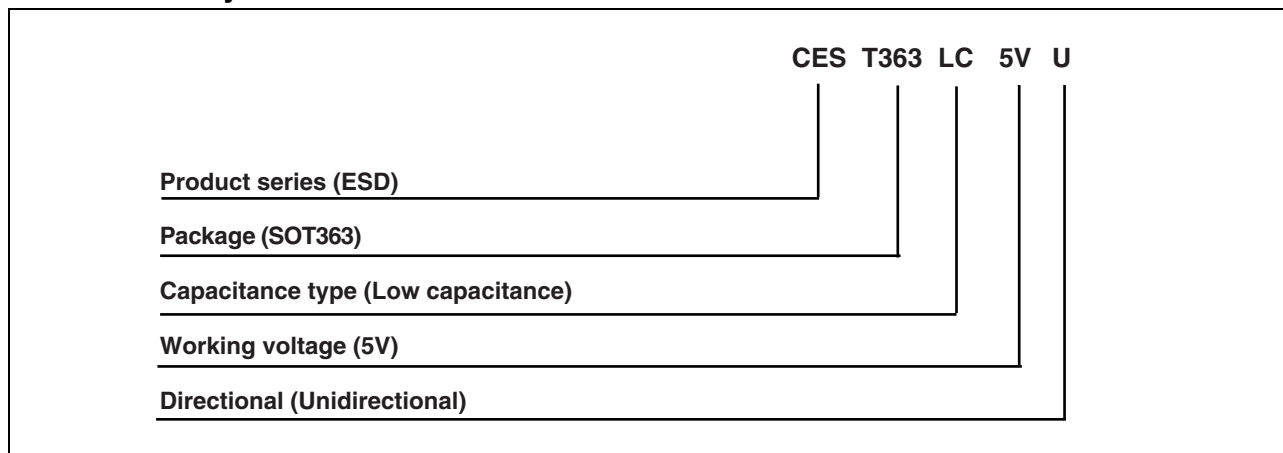


Package Dimensions



Symbol	Dimensions in millimeters		
	Min	Nom	Max
A	0.90	1.00	1.10
A1	0.00	0.05	0.10
A2	0.90	0.95	1.00
b	0.15	0.25	0.35
c	0.10	0.13	0.15
D	2.00	2.10	2.20
E	1.15	1.25	1.35
E1	2.15	2.28	2.40
e	0.650 BSC		
e1	1.20	1.30	1.40
L	0.525 BSC		
L1	0.26	0.36	0.46
θ	0°	4°	8°

Part number system



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CEST363LC5VU	SOT363	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release
20-May-2019	2.0	Upade

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