

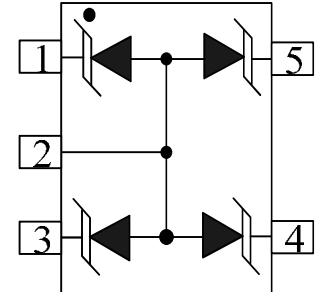
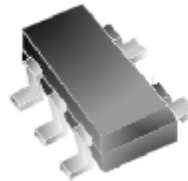


ESD TVS Array in SOT353

CEST353NC5VU

Features

- 100Watts peak pulse power (tp = 8/20µs)
- SOT353 Package
- Unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Normal capacitance (22pF typical)
- ESD Protection for high-speed data lines to:
  - IEC 61000-4-2 ±30KV contact ±30KV air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 6A (8/20µs)



Mechanical Data

- **Case:** SOT353 (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

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 (TP=8/20µS)	PP	100	W
ESD contact/air discharge (IEC-61000-4-2)	VESD	30/30	kV
Peak Pulse Current (tp = 8/20µS)	IPP	6.0	A
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	TSTG	-55 to +150	°C

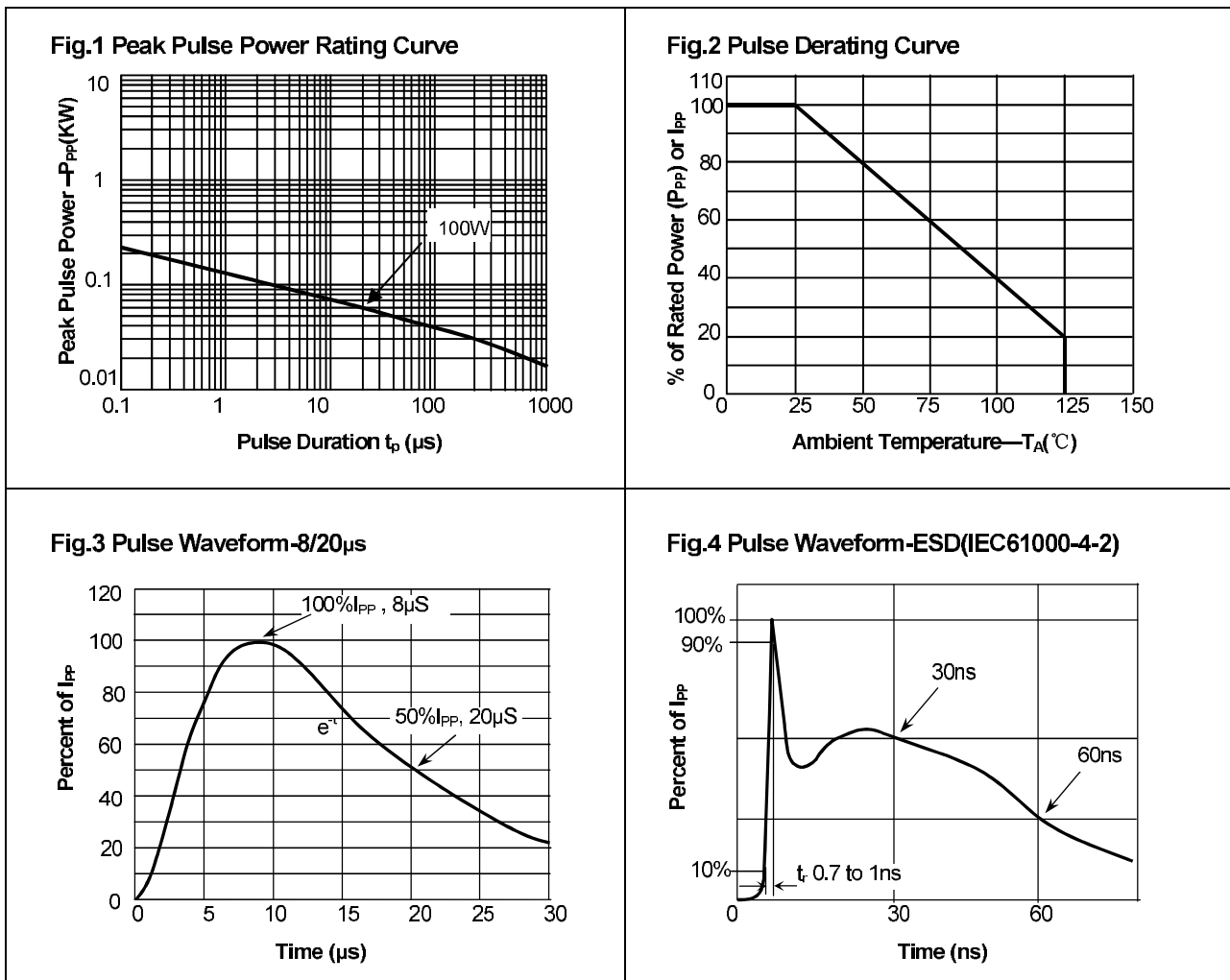
Electrical Characteristics

(TA = 25 °C unless otherwise specified)

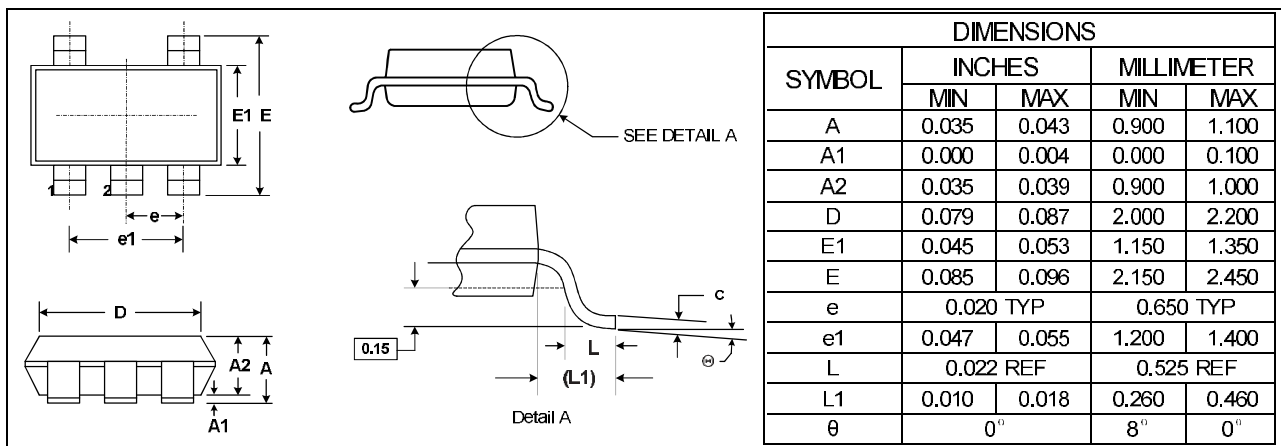
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	VRWM				5	V
Reverse Breakdown Voltage	VBR	IT=1mA	6			V
Reverse Leakage Current	IR	VR=5V			1	µA
Clamping Voltage(SURGE)	VC	IPP=6A, TP=8/20µS			18	V
Junction Capacitance	CJ	VR=0V,f=1MHz		22		pF

# CEST353NC5VU

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

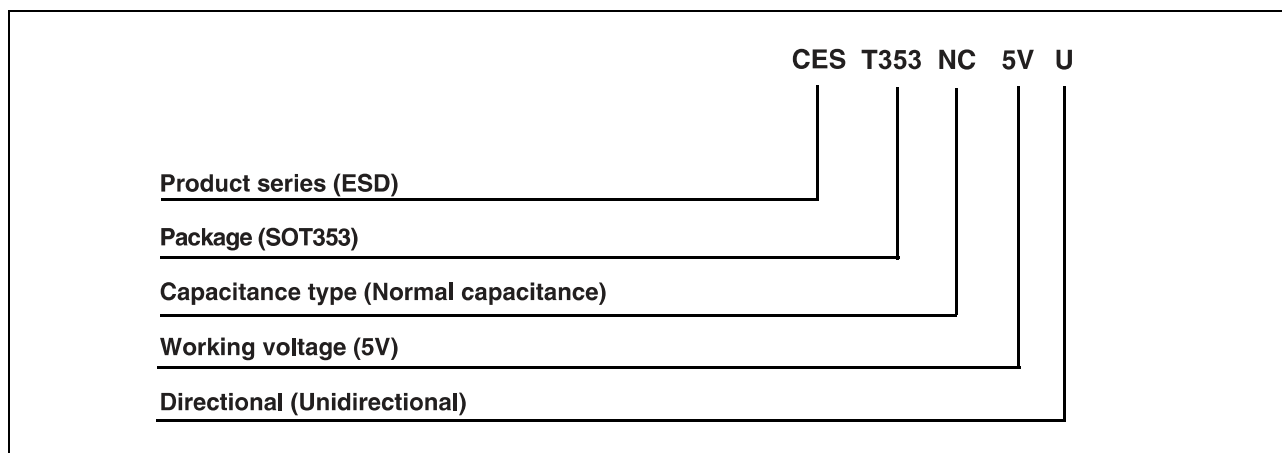


## Package Dimensions



# CEST353NC5VU

## Part number system



## Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CEST353NC5VU	SOT353	Tape and reel	3000pcs / reel	EIA STD RS-481

## Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release