

CREATEK Microelectronics

ESD TVS Array in SOT353

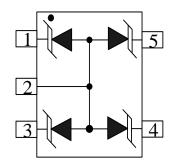
Features

- 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 (T _P =8/20µS)	P _{PP}	100	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	6.0	А
Junction Temperature	TJ	-55 to +125	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$ C

Electrical Characteristics

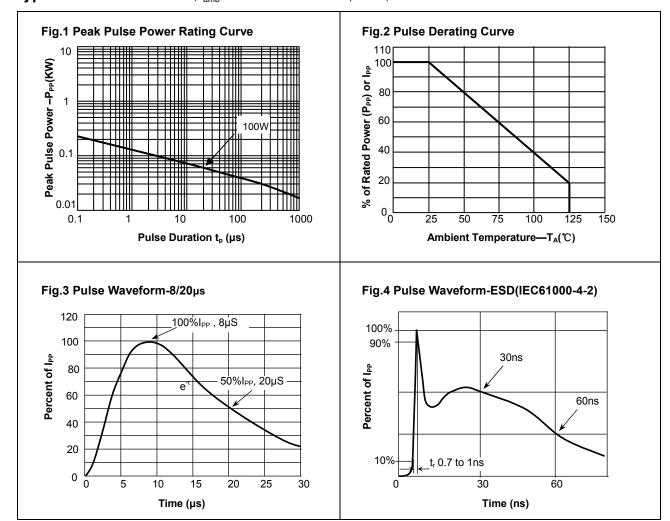
 $(T_A = 25 \, ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	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 =8/20μS			18	V
Junction Capacitance	Сл	V _R =0V,f=1MHz		22		pF

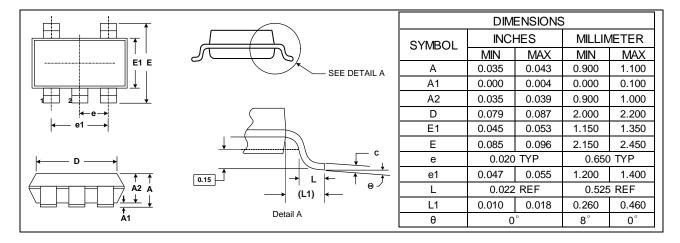


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Typical Characteristics ($T_{amb} = 25 \, ^{\circ}\text{C}$ unless otherwise specified)



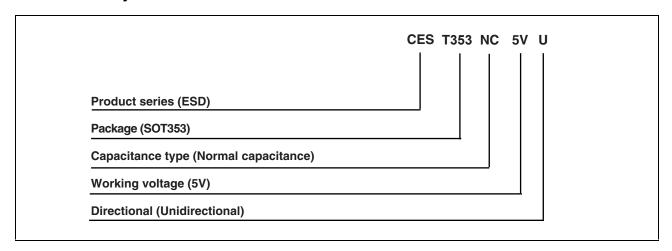
Package Dimensions





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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



CEST353NC5VU

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