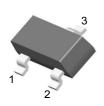
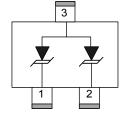


ESD TVS Array in SOT-23

Features

- 30 Watts peak pulse power (tp = 8/20µs)
- Tiny SOT-23 package
- Unidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2 ±11KV contact ±15KV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 5A (8/20µs)





Mechanical Data

- Case: SOT-23 (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

- Dataline
- Automatic Teller Machines
- Net works
- High Definition Multi-Media Interface (HDMI)
- Digital Visual Interface (DVI)
- Other electronics equipments Communication systems

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
ESD Air Discharge per IEC 61000-4-2	V _{ESD}	± 15	kV
ESD Contact Discharge per IEC 61000-4-2	V _{ESD}	± 11	kV
Peak pulse power 8/20 µs waveform	P _{PPM}	30	W
Peak pulse current 8/20 µs waveform	I _{PPM}	3	A
Operating Temperature	T _J	- 55 to + 125	°C
Storage Temperature	T _{STG}	- 55 to + 150	°C

Electrical Characteristics

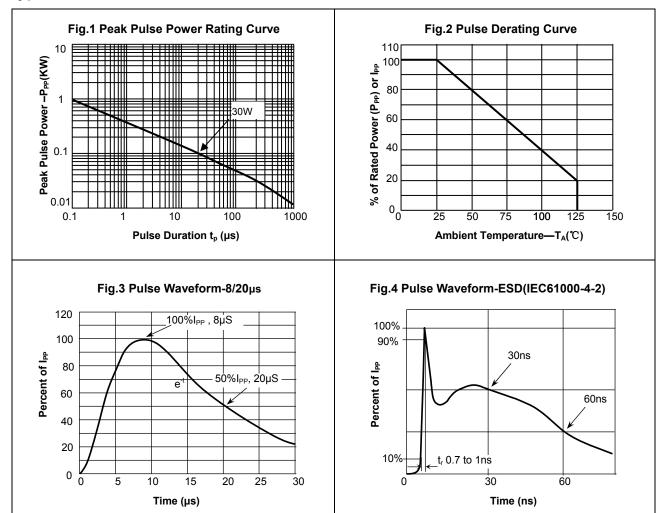
(T_A = 25 °C unless otherwise specified)

Parameter	Test Conditions	Synbol	Min.	Тур.	Max.	Unit
Reverse Stand-Off Voltage		V_{RWM}			5.0	V
Max. Reverse current	at V _R = 5 V	IR			1	μΑ
Max. Clamping voltage	at I _{PP} = 3 A, Acc. IEC 61000-4-5	V _C			11.0	V
Min. Reverse Breakdown Voltage	at I _R = 1 mA	V_{BR}	6		7.5	V
Capacitance	at $V_R = 0 V$; $f = 1 MHz$	C _j		0.25		pF

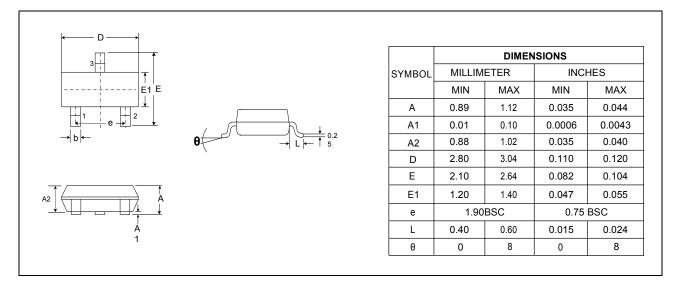
Rev. 1.0 www.crea-tek.com



$\textbf{Typical Characteristics} \ \, (\mathsf{T}_{\mathsf{amb}} \, \mathsf{=} \, \mathsf{25} \, \, \mathsf{^{\circ}C} \, \, \mathsf{unless \, otherwise \, specified})$

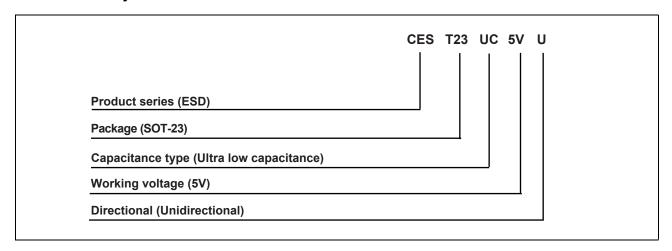


Package Dimensions





Part number system



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CEST23UC5VU	SOT-23	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release



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