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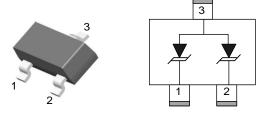
CEST23NC15VU

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ESD TVS Array in SOT-23

Features

- 350Watts 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 ±30KV contact ±30KV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 10A (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

- Cellular Handsets and Accessories
- RS-232, RS-422 & RS-485
- Control & Monitoring Systems
- Set-Top Box
- Portable Electronics
- 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}	± 30	kV
ESD Contact Discharge per IEC 61000-4-2	V _{ESD}	± 30	kV
Peak pulse power 8/20 µs waveform	P _{PPM}	350	W
Peak pulse current 8/20 µs waveform	I _{PPM}	10	A
Operating Temperature	TJ	- 55 to + 125	°C
Storage Temperature	T _{STG}	- 55 to + 150	°C

Electrical Characteristics

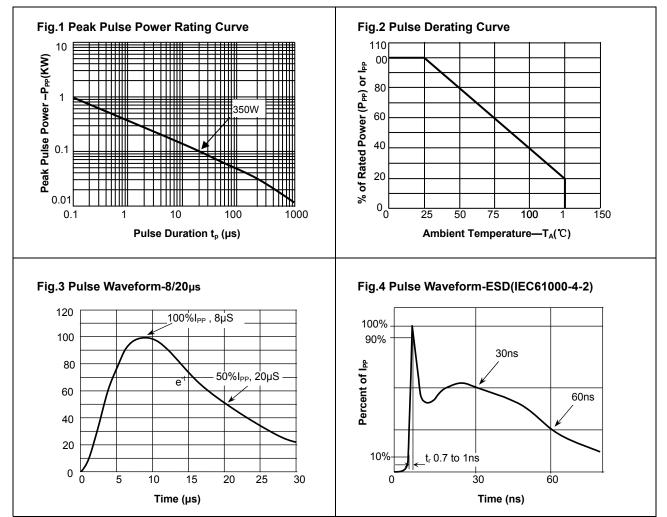
(T_A = 25 °C unless otherwise specified)

Parameter	Test Conditions	Synbol	Min.	Тур.	Max.	Unit
Reverse Stand-Off Voltage		V _{RWM}			15	V
Reverse current	at V _R =15 V	IR			1	μA
Clamping voltage	at I _{PP} = 1 A, Acc. IEC 61000-4-5	V _C			24	V
Clamping voltage	at I _{PP} = 5 A, Acc. IEC 61000-4-5	V _C		30	35	V
Reverse Breakdown Voltage	at I _R = 1 mA	V _{BR}	16.7			V
Capacitance	at V _R = 0 V ; f = 1 MHz	CD		25		pF

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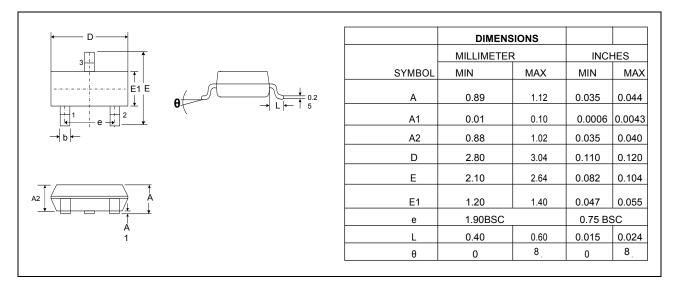
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

Package Dimensions





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Part number system

Product series (ESD)	
Package (SOT-23)	
Capacitance type (Normal Capacitance)	
Working voltage (15V)	
Directional (Unidirectional)	

Marking



Ordering inormation

Order code	Package	Packaging option	Base quantity	Packaging specification
CEST23NC15VU	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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