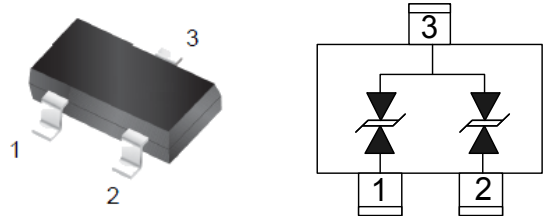


## ESD TVS Array in SOT-23

### Features

- 450Watts peak pulse power ( $t_p = 8/20\mu s$ )
- Tiny SOT-23 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2  $\pm 30kV$  contact  $\pm 30kV$  air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 18A (8/20 $\mu s$ )



### 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

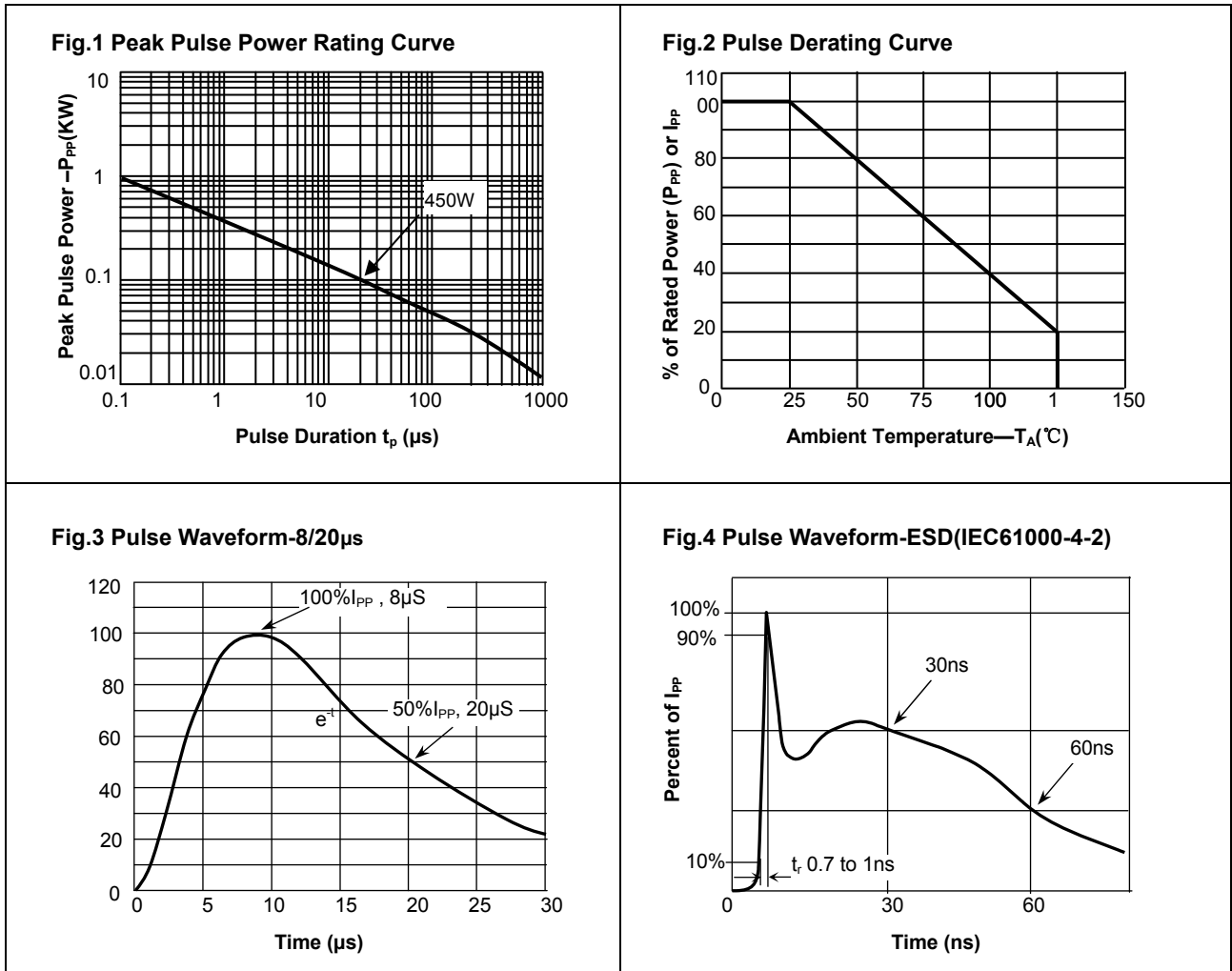
Parameter	Symbol	Value	Unit
ESD Air Discharge per IEC 61000-4-2	$V_{ESD}$	$\pm 30$	kV
ESD Contact Discharge per IEC 61000-4-2	$V_{ESD}$	$\pm 30$	kV
Peak pulse power 8/20 $\mu s$ waveform	$P_{PPM}$	450	W
Peak pulse current 8/20 $\mu s$ waveform	$I_{PPM}$	18	A
Operating Temperature	$T_J$	- 55 to + 125	°C
Storage Temperature	$T_{STG}$	- 55 to + 150	°C

### Electrical Characteristics

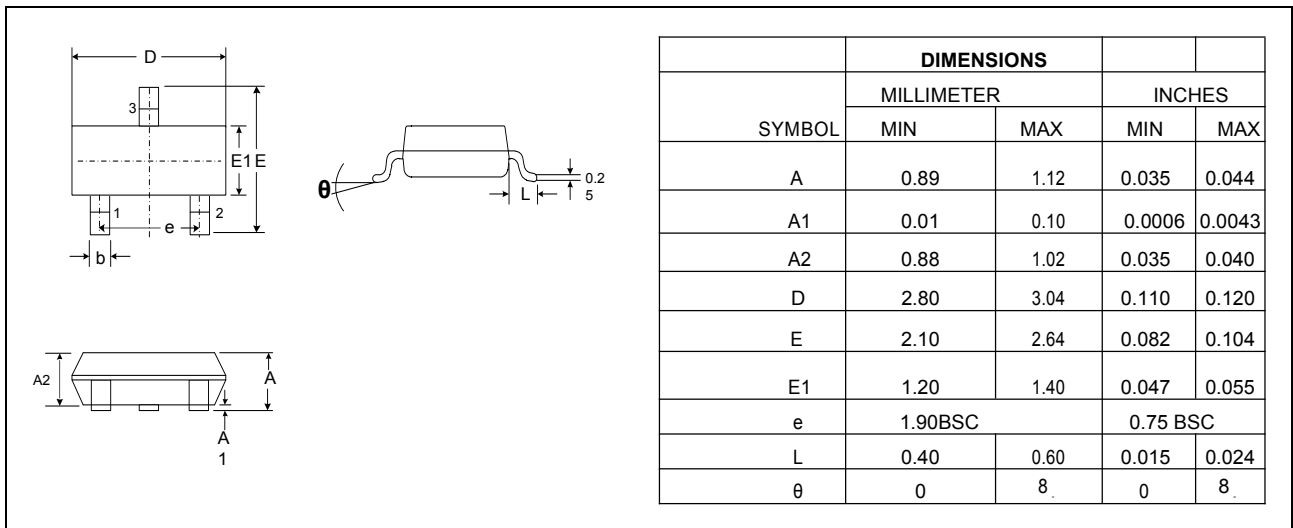
( $T_A = 25$  °C unless otherwise specified)

Parameter	Test Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage		$V_{RWM}$			5.0	V
Max. Reverse current	at $V_R = 5$ V	$I_R$			1	$\mu A$
Max. Clamping voltage	at $I_{PP} = 18$ A, Acc. IEC 61000-4-5	$V_C$			20	V
Min. Reverse Breakdown Voltage	at $I_R = 1$ mA	$V_{BR}$	6			V
Capacitance	at $V_R = 0$ V ; $f = 1$ MHz	$C_D$		75		pF

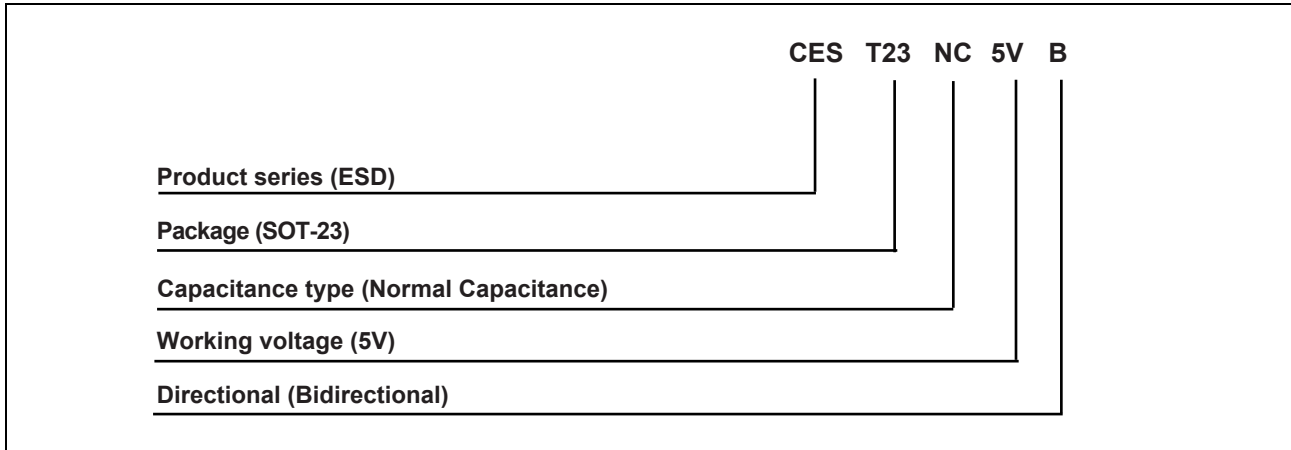
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



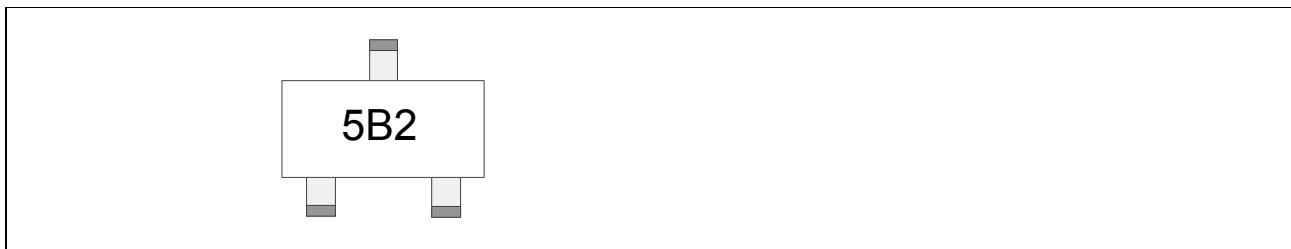
**Package Dimensions**



## Part number system



## Marking



## Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CEST23NC5VB	SOT-23	Tape and reel	3000pcs / reel	EIA STD RS-481

## Reision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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