

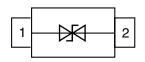
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Ultra Low capacitance ESD Protection Diode in SOD-323

Features

- 100Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=0.6pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±25kV contact ±25kV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 7A (8/20µs)





Mechanical Data

- Case: SOD-323 (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

- Cell Phone Handsets and Accessories
- Microprocessor based 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}	25/25	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	7	Α
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	6.0	8.7		V
Reverse Leakage Current	I_R	V _R =5.0V			0.5	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =7A			16	V
Junction Capacitance	C_J	V _R =0V, f=1MHz		0.6		pF

Portable Instrumentation

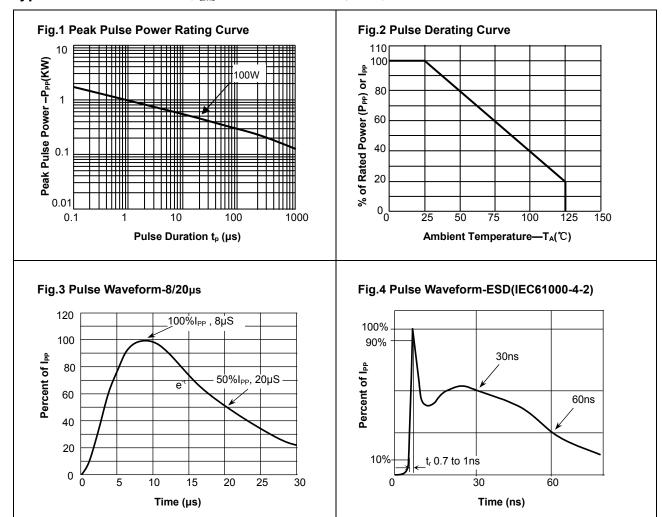
Notebooks, Desktops, and Servers

Personal Digital Assistant (PDA)

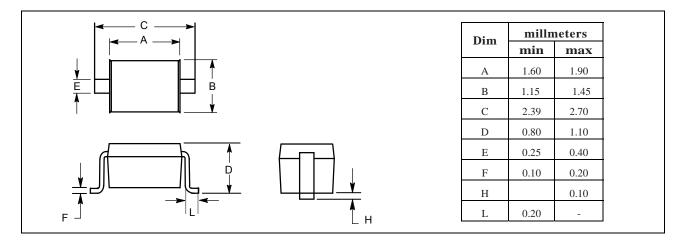


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Typical Characteristics ($T_{amb} = 25 \, ^{\circ}\text{C}$ unless otherwise specified)



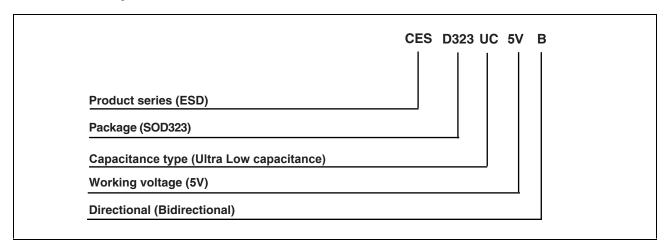
Package Dimensions





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Part number system



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD323UC5VB	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release

Rev. 1.0 www.crea-tek.com



CESD323UC5VB

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