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CESD323NC18VB

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ESD Protection Diode in SOD-323

Features

- 220Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=10pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±30kV contact ±30kV air IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 5.5A (8/20µs)



Applications

Notebook

■ Portable electronics

Computers and peripherals

Communication systems

Audio and video equipment

■ Cellular handsets and accessories



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

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}	220	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (t⊵ = 8/20µS)	I _{PP}	5.5	A
Junction Temperature	TJ	-55 to +150	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

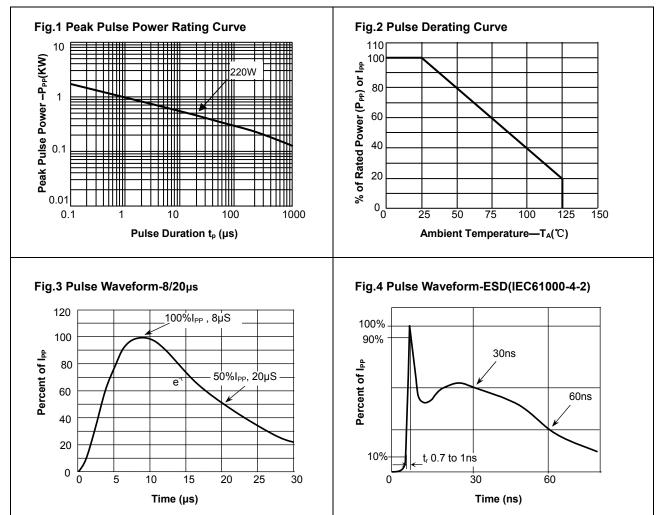
 $(T_A = 25 \ ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}			18		V
Reverse Breakdown Voltage	V_{BR}	I⊤=1mA	19.8			V
Reverse Leakage Current	I _R	V _R =18V			0.5	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =5.5A			40	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		10		pF



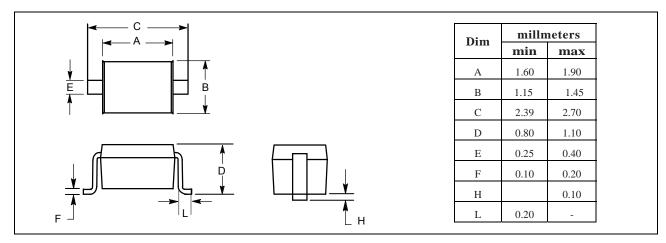
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

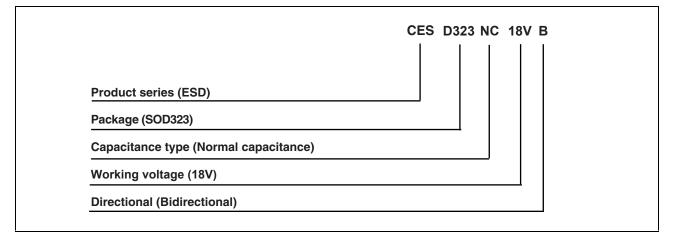
Package Dimensions





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Part number system



Marking

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Ordering inormation

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD323NC18VB	SOD-323	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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