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CESD323NC24VB

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ESD Protection Diode in SOD-323

Features

- 450Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=15pF 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) 6A (8/20µs)





Mechanical Data

- Case: SOD-323 (plastic package).
 Lead free; RoHS compliant; Halogen free
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Applications

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video 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}	450	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (tP = 8/20µS)	I _{PP}	6	А
Junction Temperature	TJ	-55 to +150	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

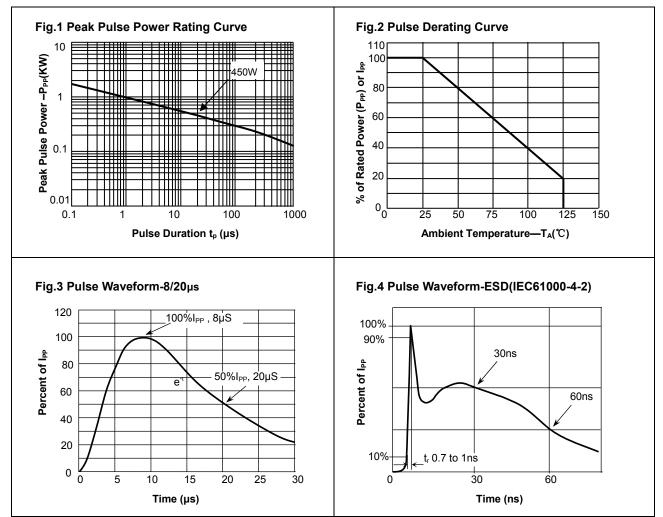
(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	26.7			V
Reverse Leakage Current	I _R	V _R =24V			1	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =6A			67	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		15		pF



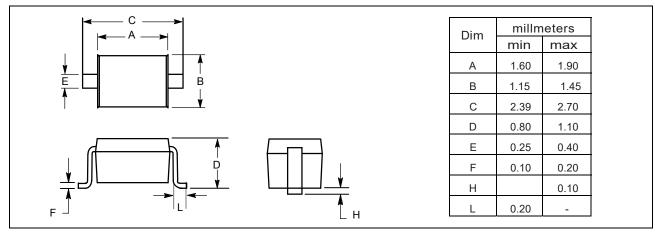
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

Package Dimensions

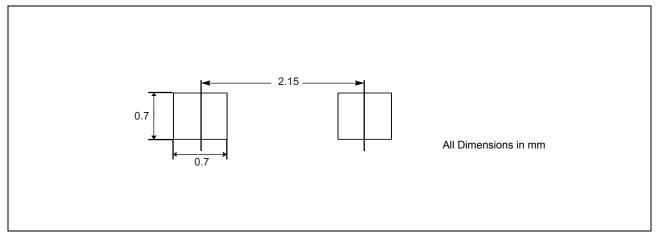




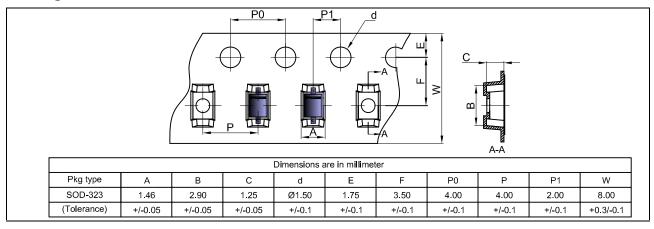
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PAD Dimension



Package Information



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD323NC24VB	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release

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