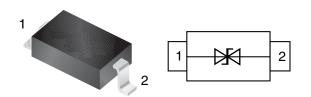


CREATEK Microelectronics

ESD Protection Diode in SOD-323

Features

- 350Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Solid-state silicon-avalanche technology
- Protection one data/power line to: IEC 61000-4-2 ±15kV contact ±30kV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 20A (8/20 µs)



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

- Microprocessor based equipment
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Personal Digital Assistant (PDA)
- Pagers Peripherals

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}	350	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	15/30	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	20	Α
Junction Temperature	TJ	-55 to +150	${\mathbb C}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$ C

Electrical Characteristics

(T_A = 25 °C unless otherwise specified)

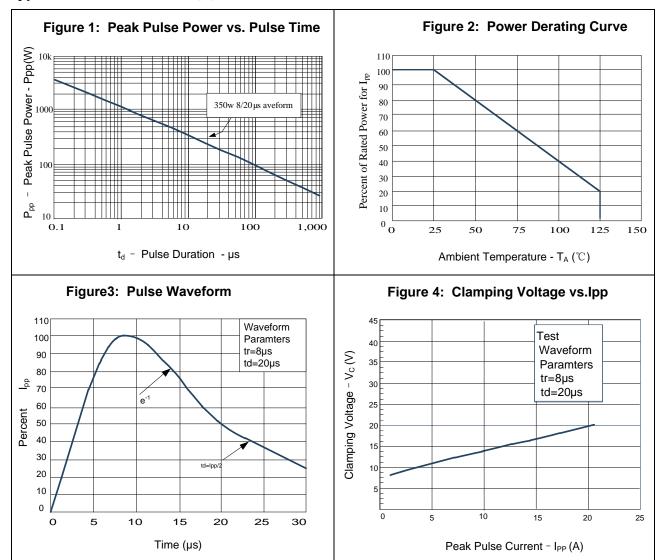
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6			V
Reverse Leakage Current	I _R	V _R =5V			1	uA
Clamping Voltage (IEC 61000-4-5)	V _C	I _{PP} =20A			21	V
Junction Capacitance	СЈ	V _R =0V, f=1MHz		20		pF

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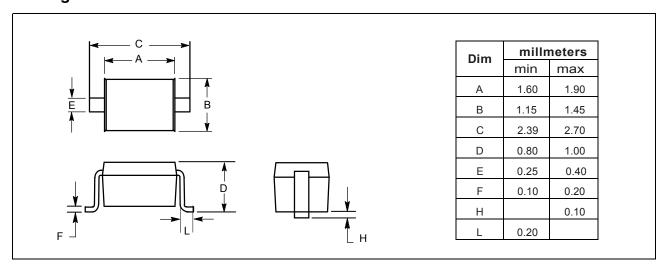


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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



Package Dimensions

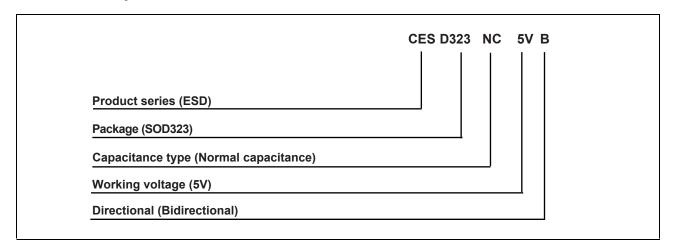


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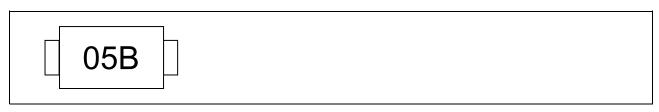


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Part number system



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD323NC5VB	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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CESD323NC5VB

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