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CESD323HC12VU

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EOS/ESD Protection Diode in SOD-323

Features

- 2200Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- High capacitance (Cj=350pF 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) 80A (8/20 μs)



Applications

Notebook

Power Line

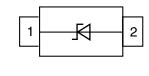
USB Vbus

Power management

Computers and peripherals

Communication systems

1



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}	2200	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (tթ = 8/20µS)	I _{PP}	80	А
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +125	°C

Electrical Characteristics

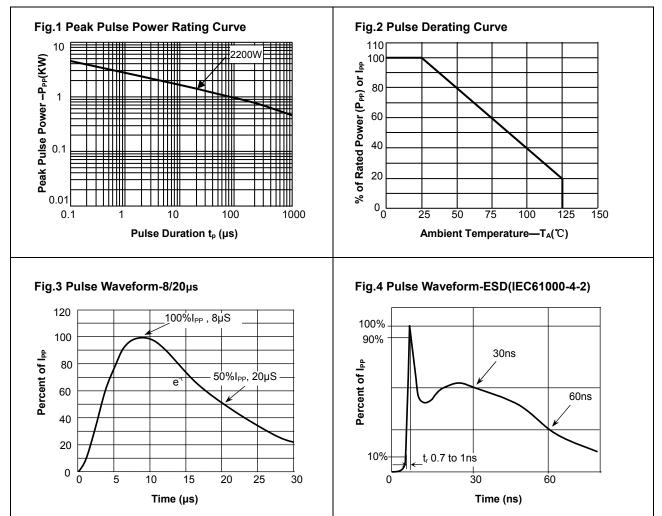
 $(T_A = 25 \ ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				12	V
Reverse Breakdown Voltage	V _{BR}	I⊤=1mA	13.3	14	15	V
Reverse Leakage Current	I _R	V _R =12V			1	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =80A			28	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		350	400	pF



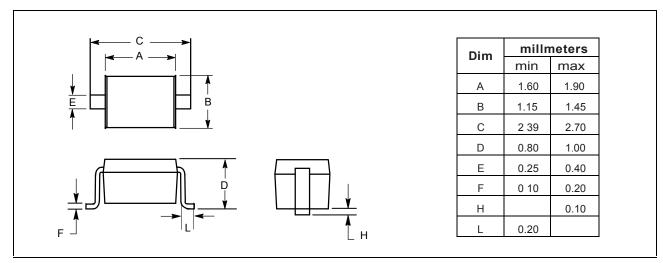
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Typical Characteristics ($T_{amb} = 25 \text{ °C}$ unless otherwise specified)

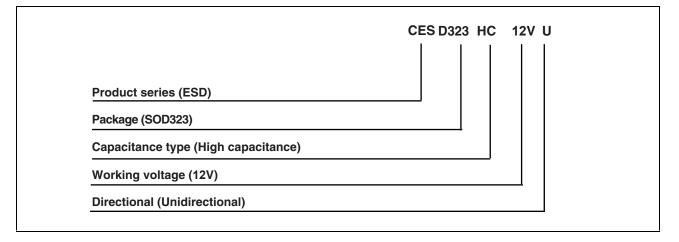
Package Dimensions





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Part number system



Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
CESD323HC12VU	12H	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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