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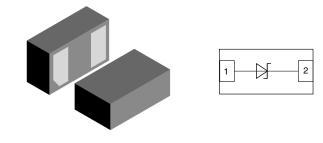
CESD882NC12VU

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ESD Protection Diode in SOD-882

Features

- 200Watts peak pulse power (tp = 8/20µs)
- SOD-882 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Normal capacitance (Cj=30pF 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) 5A (8/20µs)



■ Audio Line, Speaker, Headset,

(Keyboard, Touchpad, Buttons)

Microphone Protection

Human Interface Devices

Applications

Mechanical Data

- Case: SOD-882 (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}	200	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (t⊵ = 8/20µS)	IPP	5.0	A
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

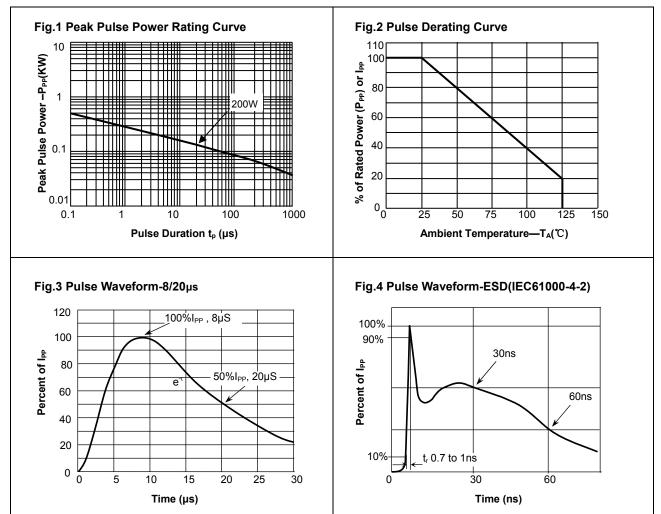
 $(T_A = 25 \ ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				12	V
Reverse Breakdown Voltage	V _{BR}	I⊤=1mA	13.3			V
Reverse Leakage Current	I _R	V _R =12V			1	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =5A			26	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		30		pF



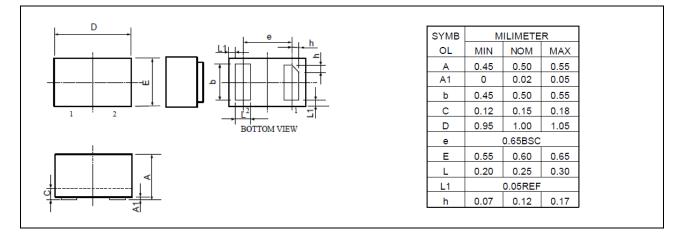
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Typical Characteristics ($T_{amb} = 25 \text{ °C}$ unless otherwise specified)

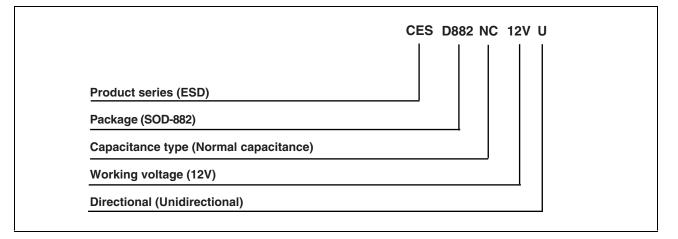
Package Dimensions





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Part number system



Marking

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD882NC12VU	SOD-882	Tape and reel	10000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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