

CESD323LC8VB

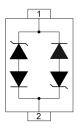
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Low Capacitance ESD Protection Diode in SOD-323

Features

- 350Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Low capacitance (Cj=1pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±8kV contact ±15kV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 15A (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

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

	0	2

Applications

- Ethernet 10/100/1000 Base T
- Cellular Phones
- Handheld Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

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}	8/15	kV
Peak Pulse Current (tթ = 8/20µS)	I _{PP}	15	A
Junction Temperature	TJ	-55 to +150	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

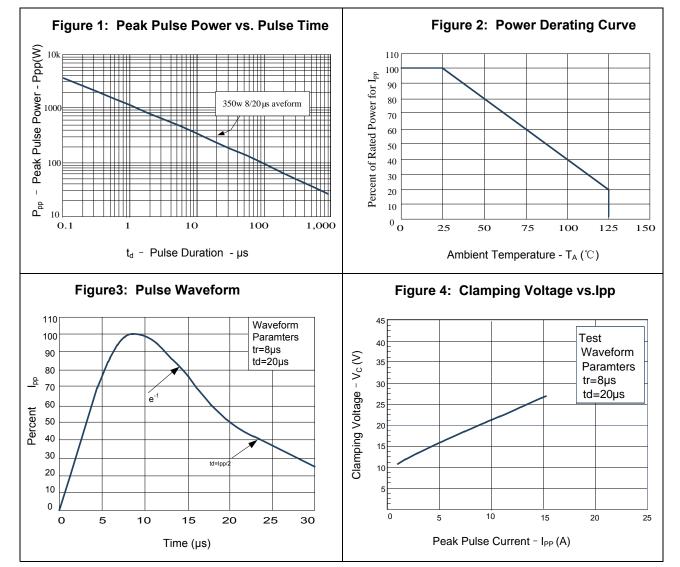
(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				8	V
Reverse Breakdown Voltage	V_{BR}	I⊤=1mA	9			V
Reverse Leakage Current	I _R	V _R =8V			1	uA
Clamping Voltage (IEC 61000-4-5)	V _C	I _{PP} =15A		23	27	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		1	1.5	pF

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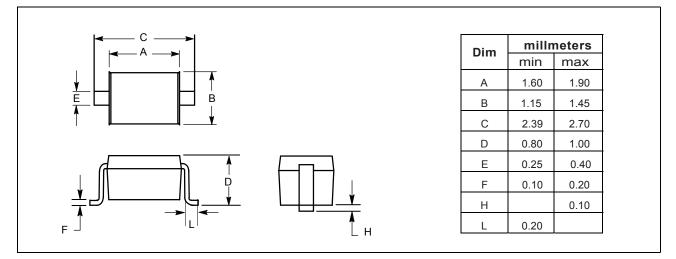
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

Package Dimensions





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Part number system

Product series (ESD)	
Package (SOD323)	
Capacitance type (Low capacitance)	
Working voltage (8V)	
Directional (Bidirectional)	

Marking

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Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD323LC8VB	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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