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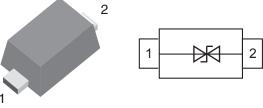
CESD523LC5VB

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ESD Protection Diode in SOD-523

Features

- 40Watts peak pulse power (tp = 8/20µs)
- SOD-523 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=2.7pF 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) 3.5A (8/20µs)



Mechanical Data

- Case: SOD-523 (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

Applications

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	40	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	8/15	kV
Peak Pulse Current (tP = 8/20µS)	I _{PP}	3.5	A
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

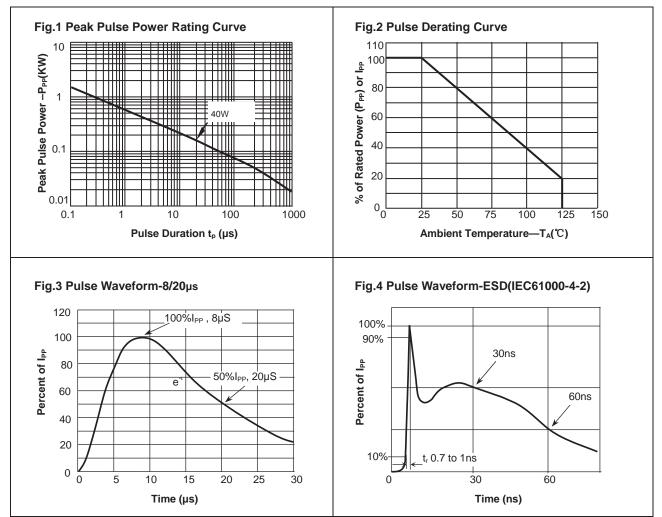
 $(T_A = 25 \ ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5.5	6.5		V
Reverse Leakage Current	I _R	V _R =5.0V			1	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =3.5A			11.5	V
Clamping Voltage (IEC 61000-4-2)	Vc	V _{ESD} =8kV		10		V
Junction Capacitance	CJ	V _R =0V, f=1MHz		2.7		pF



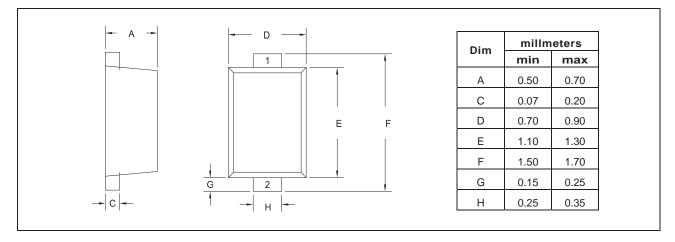
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Typical Characteristics ($T_{amb} = 25 \text{ °C}$ unless otherwise specified)

Package Dimensions





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Part number system

	CES D523 LC 5V B
Product series (ESD)	
Package (SOD-523)	
Capacitance type (Low capacitance)	
Working voltage (5V)	
Directional (Bidirectional)	

Marking

LB		
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Ordering inormation

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD523LC5VB	SOD-523	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release
5-Aug2017	2.0	Update

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