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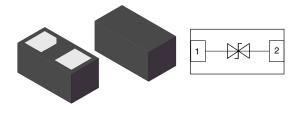
CESD1006LC5VB-M

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ESD Protection Diode in DFN1006

Features

- 40Watts peak pulse power (tp = 8/20µs)
- DFN1006 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Normal capacitance (Cj=3pF 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: DFN1006 (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

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation

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}	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	А
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +125	°C

Electrical Characteristics

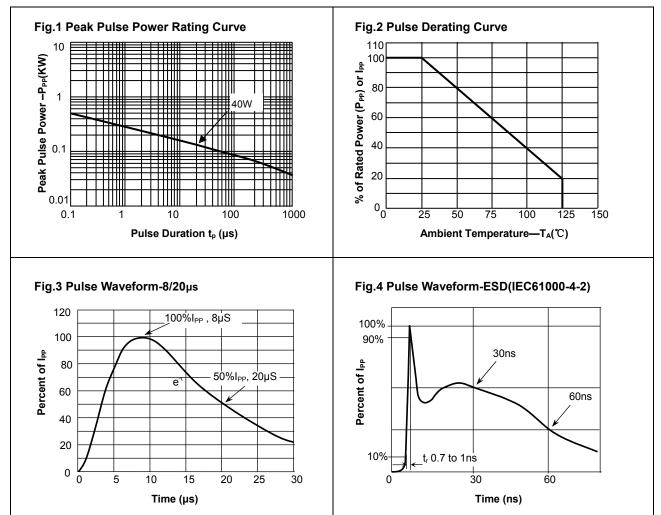
 $(T_A = 25 \ ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I⊤=1mA	5.5			V
Reverse Leakage Current	I _R	V _{RWM} =5V			500	nA
Clamping Voltage (IEC 61000-4-2)	Vc	V _{ESD} =8KV		10		V
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =3.5A			12	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		2.5		pF



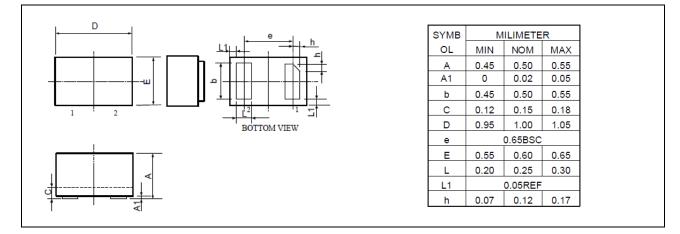
CESD1006LC5VB-M

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

Package Dimensions





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Part number system

	CES D1006 LC 5V B-M
Product series (ESD)	
Package (DFN1006)	
Capacitance type (Low Capacitance)	
Working voltage (5V)	
Directional (Bidirectional)	

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD1006LC5VB-M	DFN1006	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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CESD1006LC5VB-M

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