[¤]**@**REATEK

CESD1006UC5VB-M

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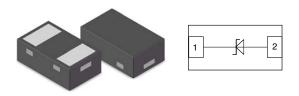
Ultra Low Capacitance ESD Protection Diode in DFN1006

Features

- 100Watts peak pulse power (tp = 8/20µs)
- DFN1006 package
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- Ultra Low capacitance (Cj=0.2pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±10kV contact ±15kV air IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 4A (8/20µs)



- 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
- Personal Digital Assistants (PDA's)
- Microprocessor based equipment
- 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}	100	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	10/15	kV
Peak Pulse Current (tP = 8/20µS)	IPP	4	А
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

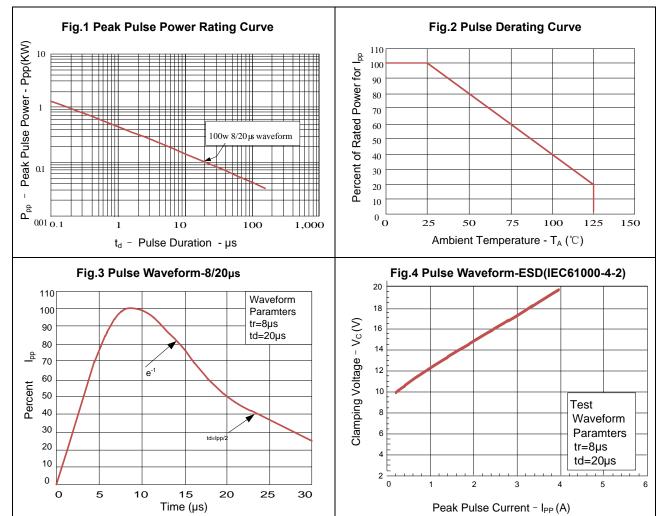
 $(T_A = 25 \ ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	I⊤=1mA	6.0	7.5		V
Reverse Leakage Current	I _R	V R =5V , T=25 [°] C		0.1	0.5	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =4A, T _P =8/20uS		20	25	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.2		pF



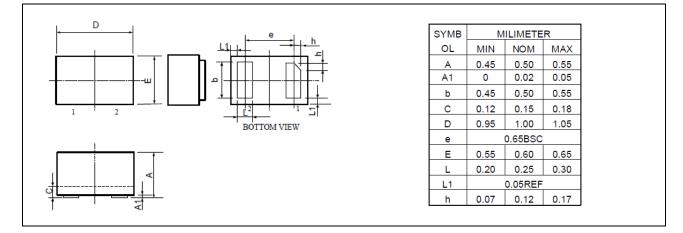
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

Package Dimensions





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Part number system

	CES D1006 UC	
Product series (ESD)		
Package (DFN1006)		
Capacitance type (Ultra Low capacitance)		
Working voltage (5V)		
Directional (Bidirectional)		

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD1006UC5VB-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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