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CESD1006HC7VU

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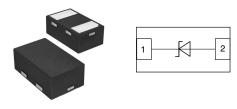
ESD Protection Diode in DFN1006

Features

- 400Watts peak pulse power (tp = 8/20µs)
- DFN1006 package
- Uni-directional configurations
- Low clamping voltage
- Low leakage current
- Normal capacitance (Cj=140pF 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) 28A (8/20µs)



- Case: DFN1006 (plastic package). Lead free; RoHS compliant; Halogen free
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals



Applications

- Microprocessor based equipment
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation
- Digital Cameras
- 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}	400	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (tP = 8/20µS)	I _{PP}	28	A
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

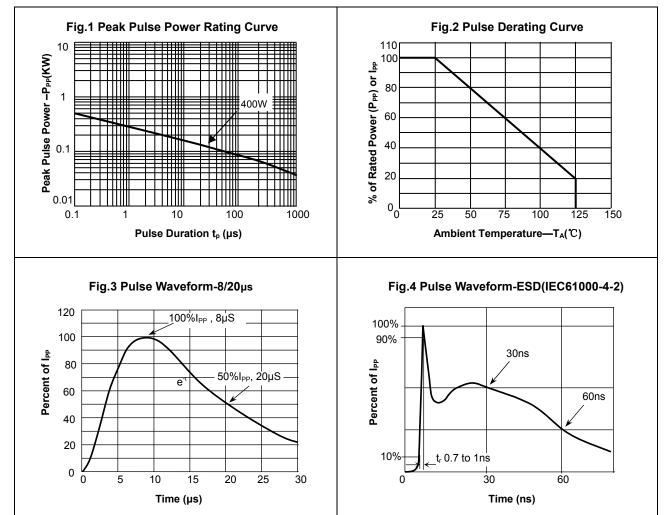
(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				7.0	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	8.0			V
Reverse Leakage Current	I _R	V _{RWM} =7.0V			0.5	uA
Clamping Voltage (IEC 61000-4-5)	Vc	I _{PP} =28A			15.0	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		140		pF



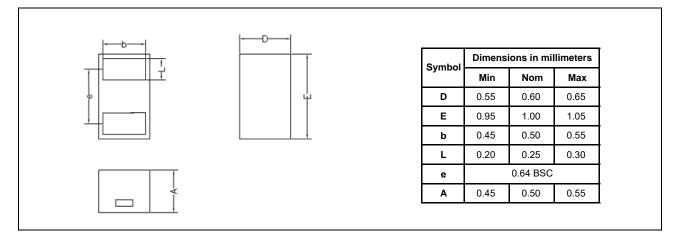
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

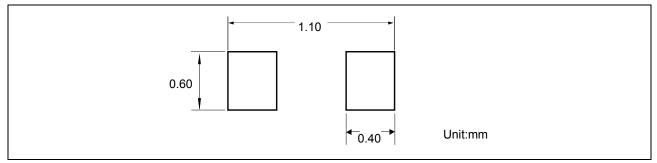
Package Dimensions



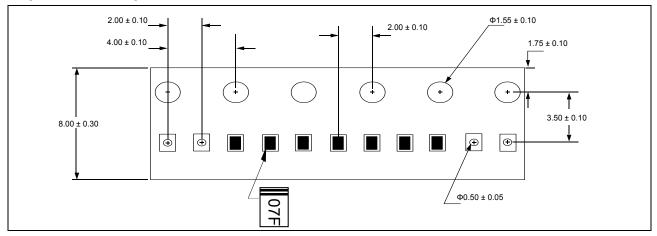


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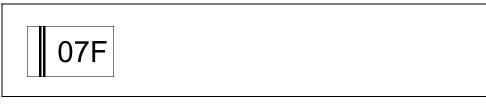
Pad Dimensions



Tape and Reel Specification



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD1006HC7VU	DFN1006	Tape and reel	10000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
19-Jul2016	1.0	Initial release

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