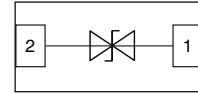
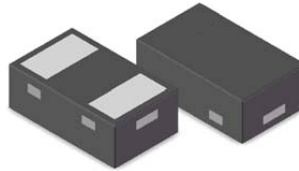


## 9G8 `DfchYW]cb`8 ]cXY`]b`DFN1006

### : YUi fYg

- 70Watts peak pulse power (tp = 8/20us)
- DFN1006 package
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Medium capacitance (CJ=0.5pF typ.)
- Protection one data/power line to:
  - IEC 61000-4-2 ±15kV contact ±20kV air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 9A (8/20µs)



### A YW Ub]WU`8 UU

- 7 UgY. DFN1006 (plastic package).  
Lead free; RoHS compliant; Halogen free
- Ac`X]b[ `7 ca dci bX': `Ua a UV`]mFUh]b[ .  
UL 94 V-0
- HYfa ]bUg. 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

### 5 Vgc`i hY`AU ]a i a `FU]b[ g

Ratings at 25 °C, ambient temperature unless otherwise specified

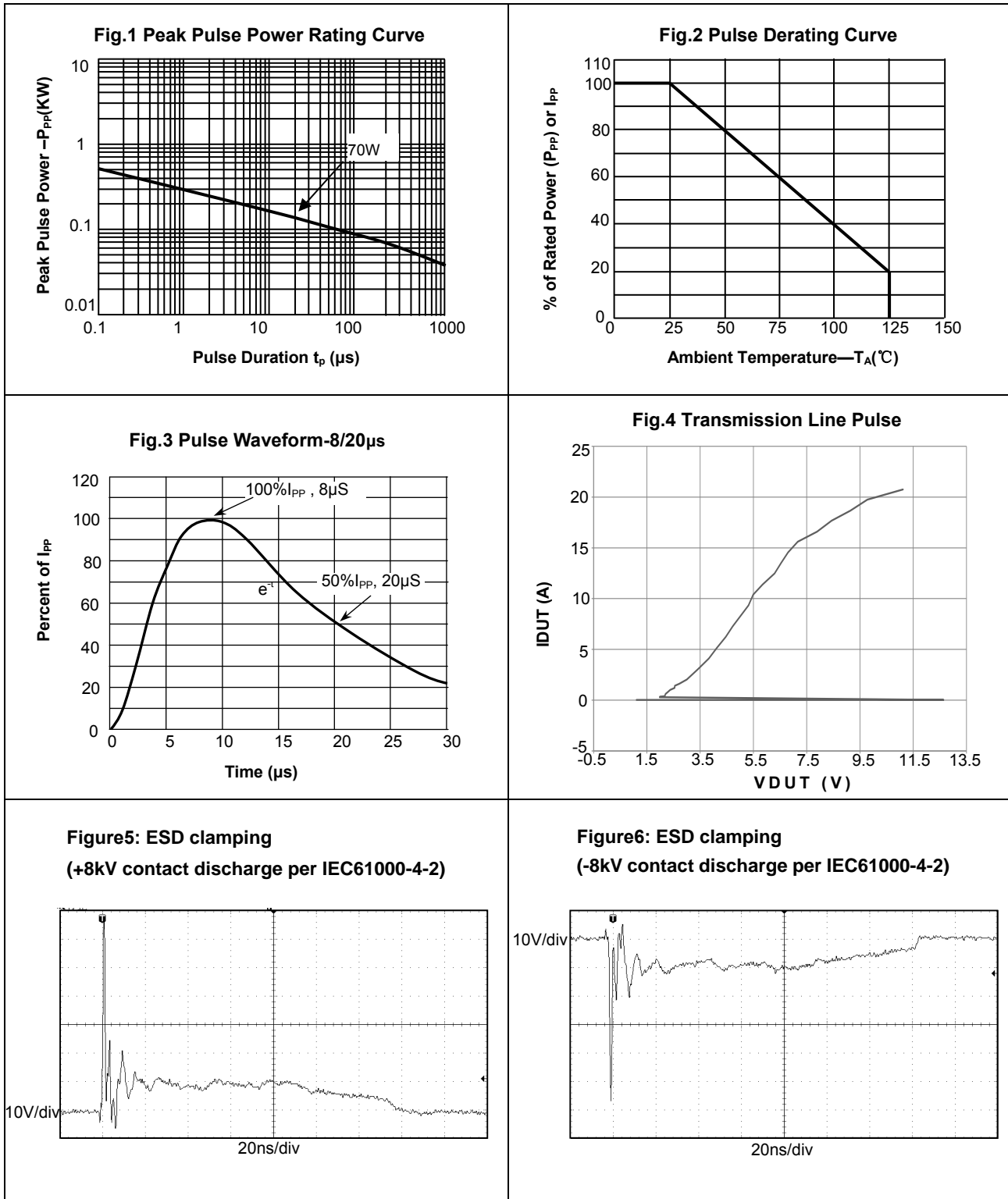
Parameter	Symbol	Value	Unit
Peak Pulse Power (TP=8/20µS)	P <sub>PP</sub>	70	W
ESD contact/air discharge (IEC-61000-4-2)	V <sub>ESD</sub>	15/20	kV
Peak Pulse Current ( tp = 8/20µS )	I <sub>PP</sub>	9	A
Junction Temperature	T <sub>J</sub>	-55 to +125	°C
Storage temperature	T <sub>STG</sub>	-55 to +125	°C

### Electrical Characteristics

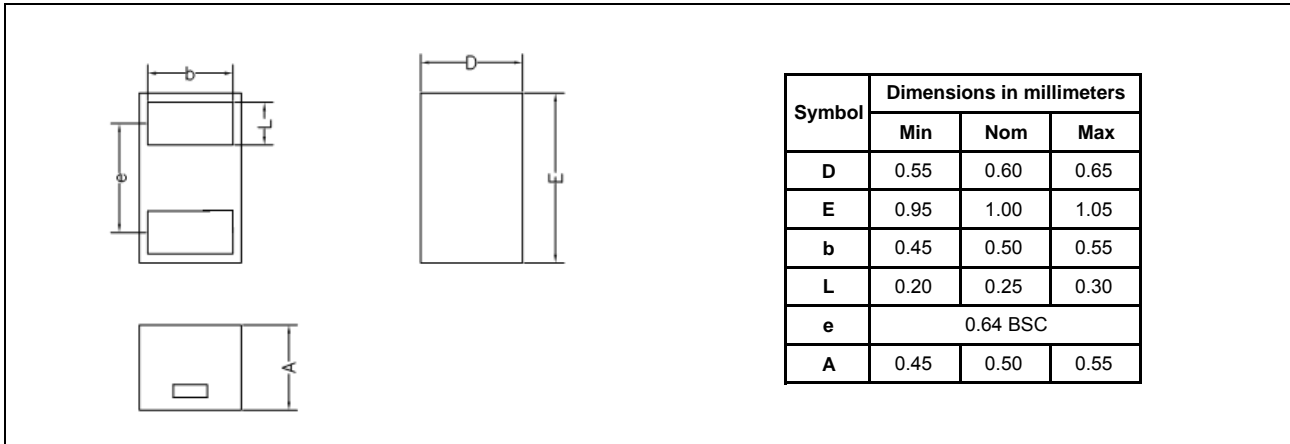
(T<sub>A</sub> = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V <sub>RWM</sub>				5.0	V
Holding Voltage	V <sub>H</sub>	I <sub>T</sub> =I <sub>H</sub>	2.0		3.2	V
Holding Current	I <sub>H</sub>		15			mA
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			500	nA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =7A, tp=8/20µs		6.2	7.5	V
Clamping Voltage(TLP)	V <sub>C</sub>	I <sub>PP</sub> =16A, TP=100ns			7.5	V
Trigger Voltage	V <sub>T</sub>		8		16	V
Dynamic Resistance	R <sub>dyn</sub>	TP=100ns		0.25		Ω
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz		0.5		pF

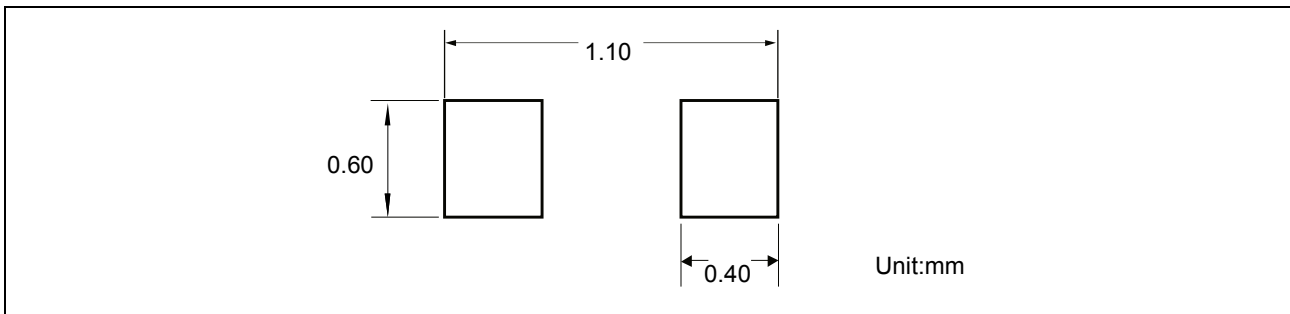
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



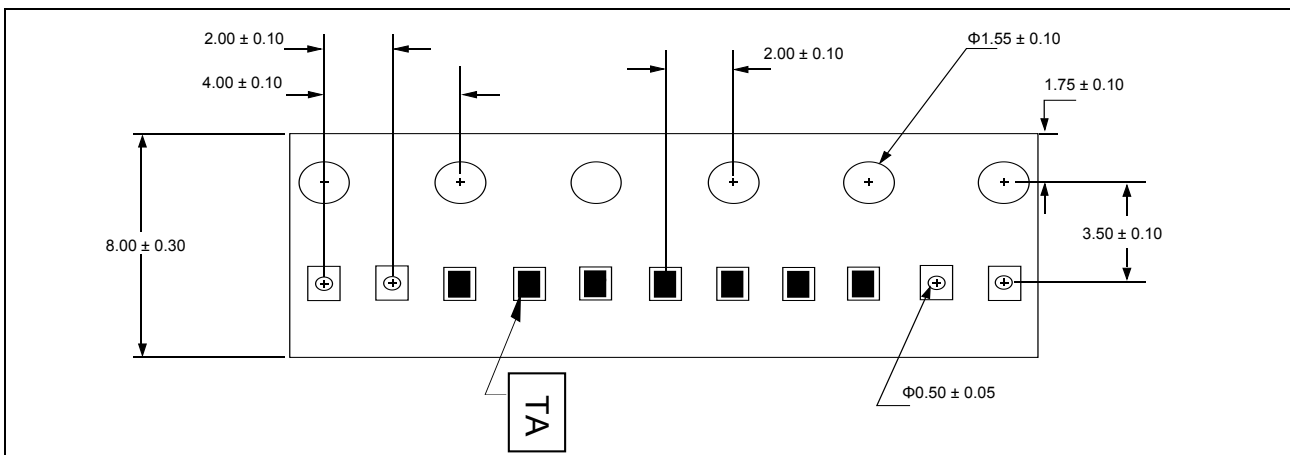
## Package Dimensions



## Pad Dimensions



## Tape and Reel Specification



## Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
CESD1006UC5VBSH	TA	DFN1006	Tape and reel	10000pcs / reel	EIA STD RS-481

## Revision history

Date	Revision	Changes
23-May-2018	1.0	Initial release

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