

ESD1006HC7VU

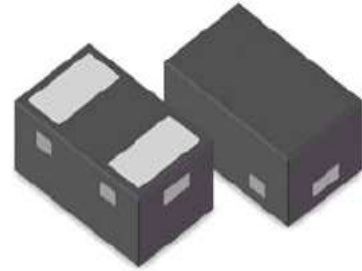
ESD1006HC7VU Transient Voltage Suppressors ESD Protection Diode

General description

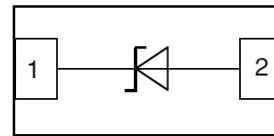
Silicon Protection Diode in a DFN1006 Package.

FEATURES

- 400 Watt peak pulse power (t/p=8/20)
- Normal Capacitance Typ. 140 pF
- Uni-directional configurations
- Low Leakage Current
- Low clamping voltage
- Protection one data line / Power Line to :
- IEC 61000-4-2 $\pm 30\text{Kv}$ Contact $\pm 30\text{Kv}$ air.
- IEC 61000-4-4 EFT 40A(5/50nS)
- IEC 61000-4-5 Lightning 28A(8/20uS)
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish



DFN1006 Package



Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
P _{pp}	Peak pulse power	400	W
T _L	Max Lead Solder Temperature range (10 Second Duration)	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _J	Junction Temperature	-55 to +125	°C
ESD	IEC61000-4-2 Air Discharge	± 30	KV
	Contact Discharge	± 30	
EFT	IEC61000-4-4	40	A
IPP	IEC61000-4-5	28	A

Device Marking:

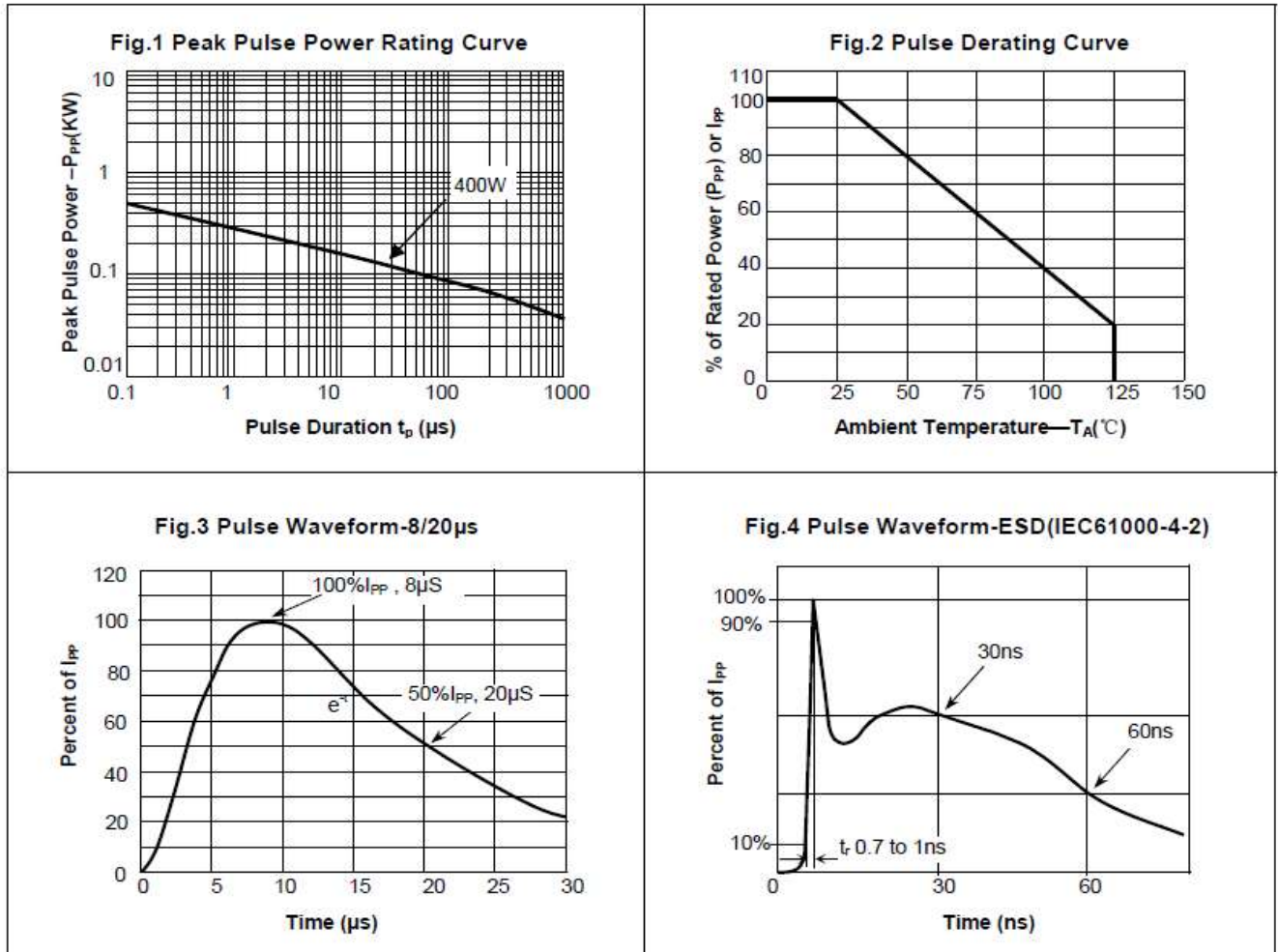
Device Type	Marking	Shipping
ESD1006HC7VU	07F	10,000/Reel

Electrical Characteristics (T_A = 25°C unless otherwise noted)

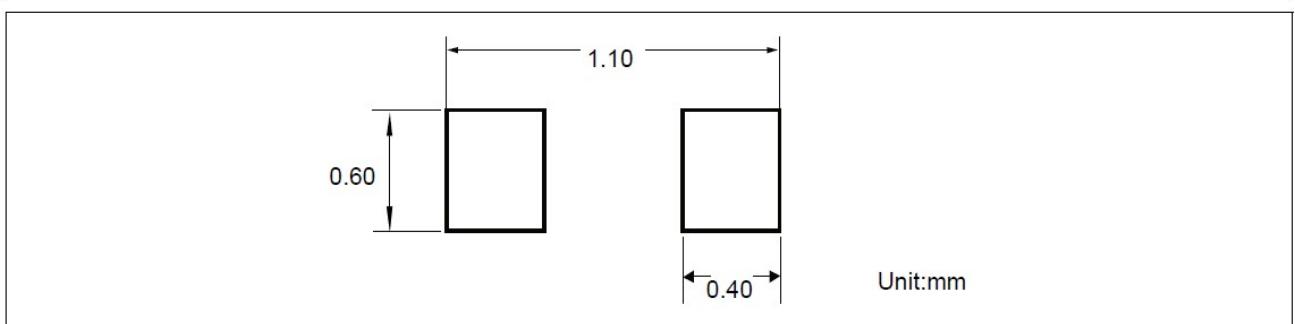
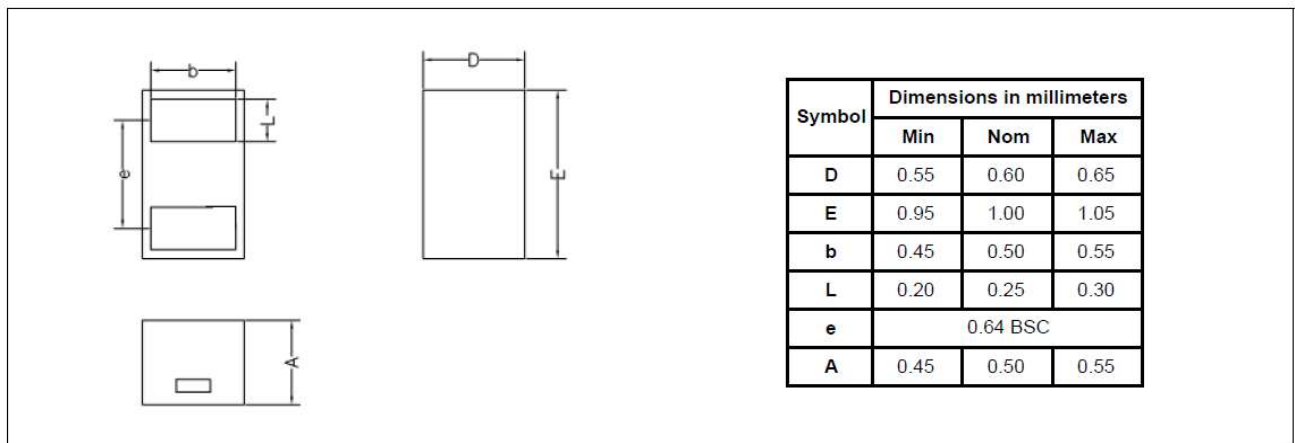
Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
V _{BR}	Reverse Breakdown Voltage	I _T =1mA	8.0	--	--	Volts
V _{RWM}	Reverse Stand-off Voltage		--	--	7	Volts
I _R	Reverse Leakage Current	V _R =7V	--	--	0.5	uA
V _c	Clamping Voltage(IEC 61000-4-5)	I _{pp} =28A	--	--	15	Volts
C _j	Junction Capacitance	V _R =0V, f= 1MHz	--	140	--	pF

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



DFN1006 Package Outline



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