

Features

- Low leakage current
- Low clamping voltage
- IEC 61000-4-2 (ESD Air): $\pm 30\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 25\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 4A

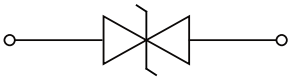
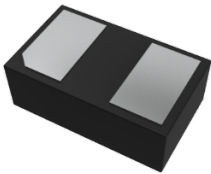
Reverse Working Voltage
5.0V Max.

Low capacitance
0.3pF(Typ.)

DFN1006-2L

Applications

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation, Digital Cameras
- Peripherals, Audio Players, Industrial Equipment



Maximum Ratings (Ta=25℃ Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{ESD}	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	± 30	KV
		ESD per IEC 61000-4-2(Contact)	± 25	KV
P_{PP}	Peak Pulse Power	$t_p = 8/20 \mu\text{s}$	60	W
I_{PP}	Rated Peak Pulse Current	$t_p = 8/20 \mu\text{s}$	4	A
T_J	Operating JunctionTemperature Range	—	-55 to +150	℃
T_{STG}	Operating JunctionTemperature Range	—	-55 to +150	℃

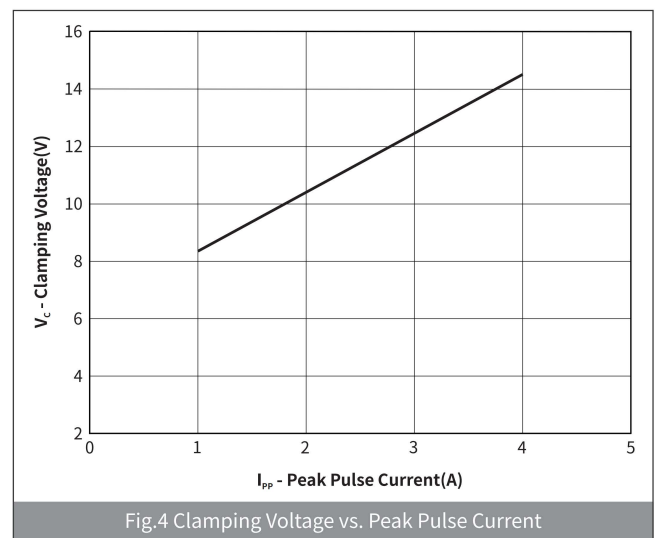
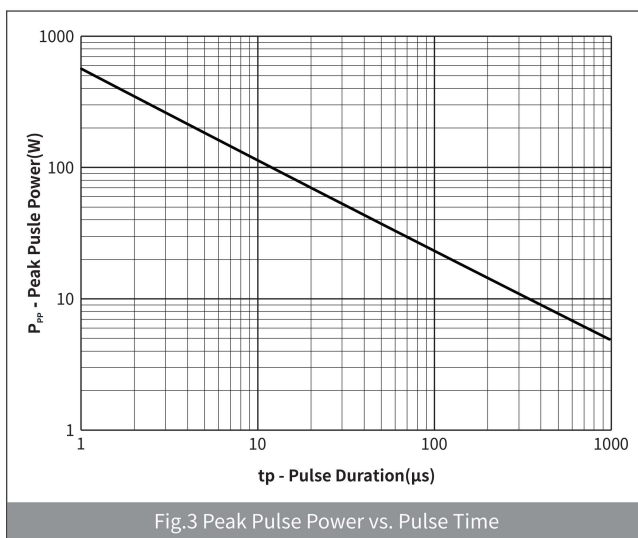
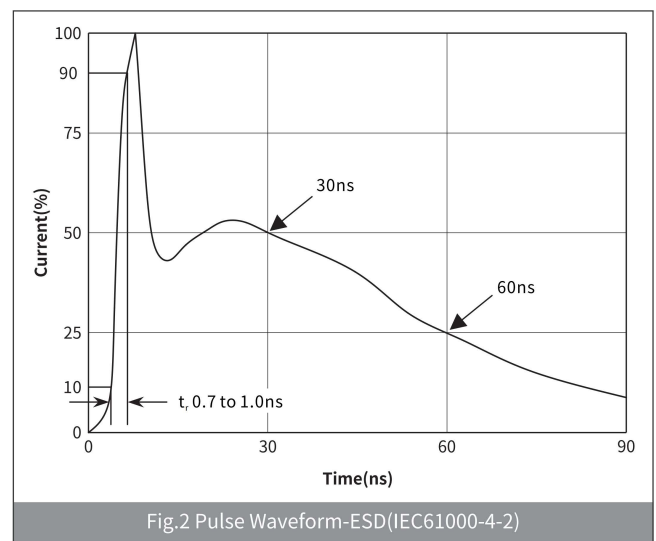
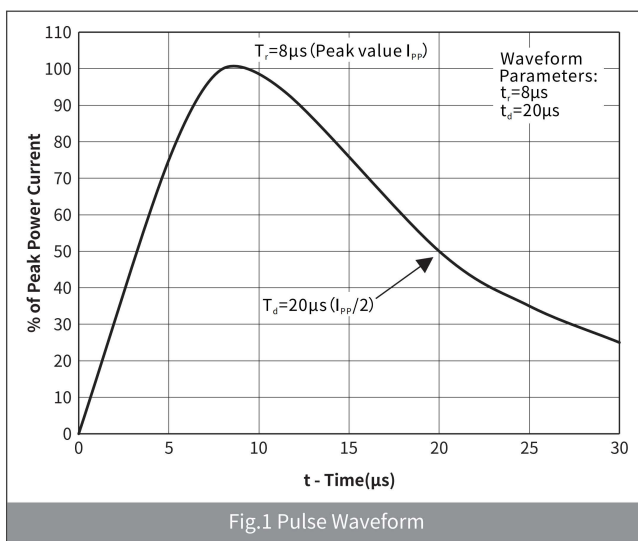
Electrical Parameter

SYMBOL	PARAMETER
V_C	Clamping Voltage @ I_{PP}
V_{BR}	Breakdown Voltage @ I_T
I_{PP}	Peak Pulse Current
I_T	Test Current
I_R	Reverse Leakage Current @ VRWM
V_{RWM}	Peak Reverse Working Voltage
P_{PP}	Peak Pulse Power Dissipation
C_J	Junction Capacitance @ $V_R=0\text{V}, f=1\text{MHz}$
I_F	Forward Current
V_F	Forward Voltage @ I_F

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	V_{RWM}	$T_a=25^\circ\text{C}$	—	—	5.0	V
Breakdown Voltage	V_{BR}	$I_I=1.0\text{mA}, T_a=25^\circ\text{C}$	6.5	7.5	9.0	V
Reverse Leakage Current	I_R	$V_{RWM}=5.0\text{V}, T_a=25^\circ\text{C}$	—	—	0.08	μA
Clamping Voltage	V_C	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$	—	—	9	V
Clamping Voltage	V_C	$I_{PP}=4\text{A}, t_p=8/20\mu\text{s}$	—	—	15	V
Junction Capacitance	C_J	$V_{RWM}=0\text{V}, f=1\text{MHz}$	—	0.3	0.45	pF

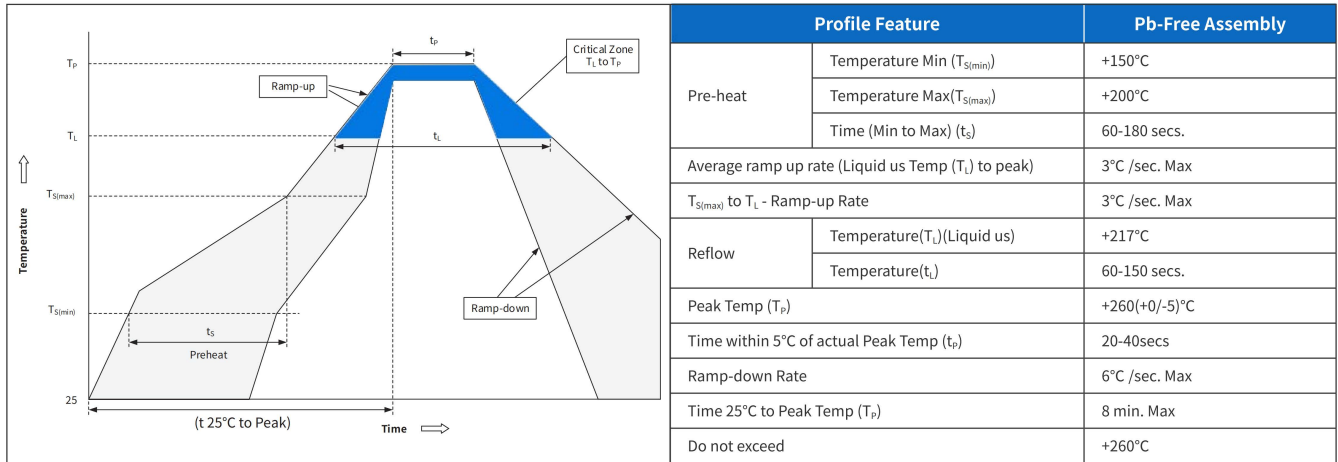
Ratings And Characteristics Curves ($T_a=25^\circ\text{C}$ Unless otherwise specified)



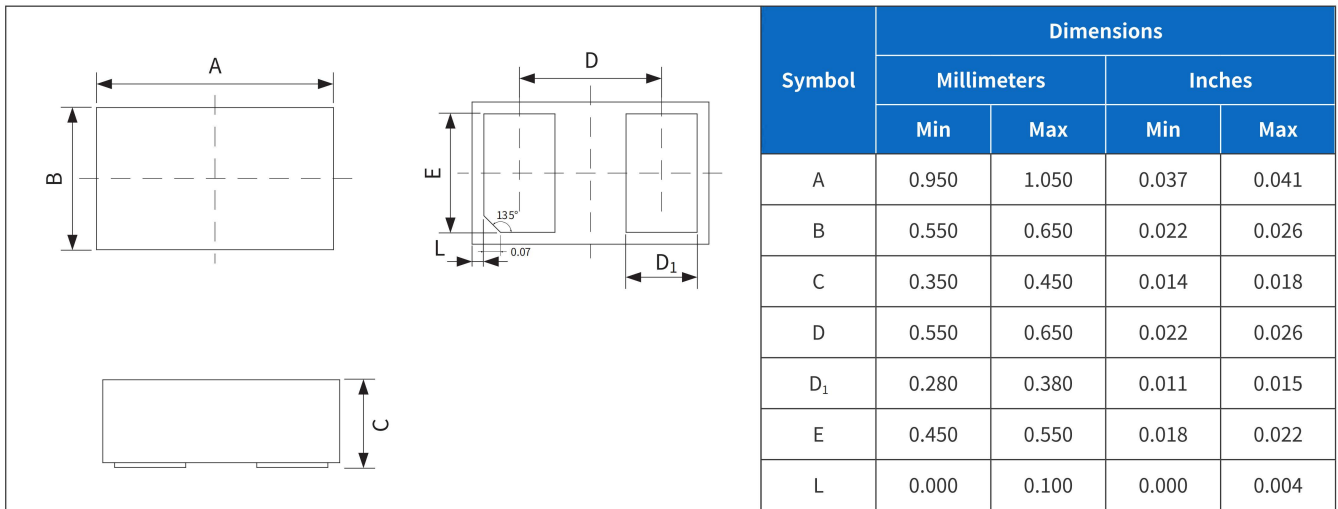
Ordering Information

PREFERRED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H5VU10B	DFN1006	1.00×0.60×0.37	7" REEL	10,000

Recommended Soldering Conditions



Package Outline Dimensions (DFN1006)



Suggested Pad Layout

