

DFN1006-2L Plastic-Encapsulate ESD Protection Diodes

Features

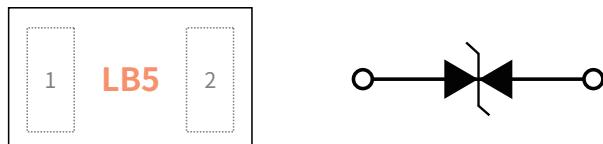
- Low leakage current
- Low clamping voltage
- IEC 61000-4-2 (ESD Air): $\pm 25\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 22\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 2A

Reverse Working Voltage
5.0 V Max.
Small capacitance
2.5pF(Typ.)

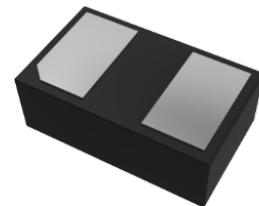
Applications

- Cellular Handsets and Accessories
- Audio Players, Peripherals
- Notebook computers
- Personal Digital Assistants
- Portable Instrumentation
- Keypads, Side Keys, LCD Displays

Function Diagram



DFN1006-2L

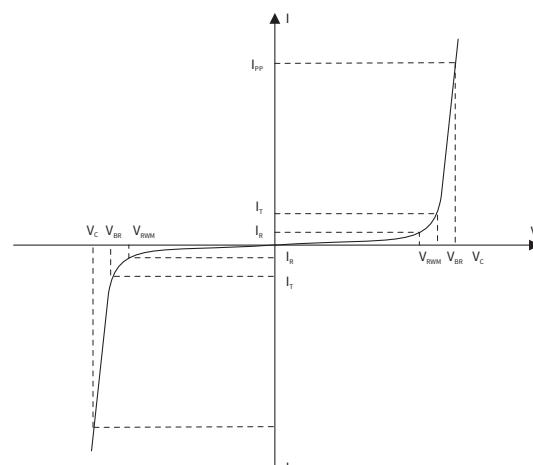


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{ESD}	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	± 25	kV
		ESD per IEC 61000-4-2(Contact)	± 22	kV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	25	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	2.0	A
T _J	Operating JunctionTemperature Range	—	-55 to +125	°C
T _{STG}	Operating JunctionTemperature Range	—	-55 to +125	°C

Electrical Parameter

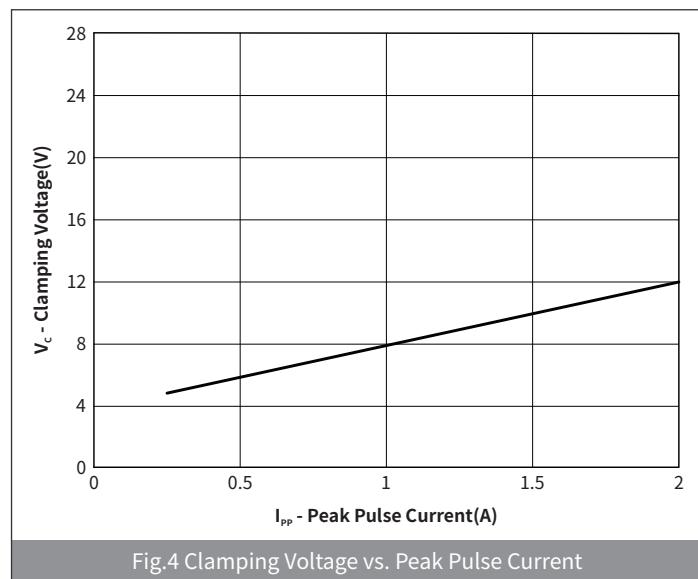
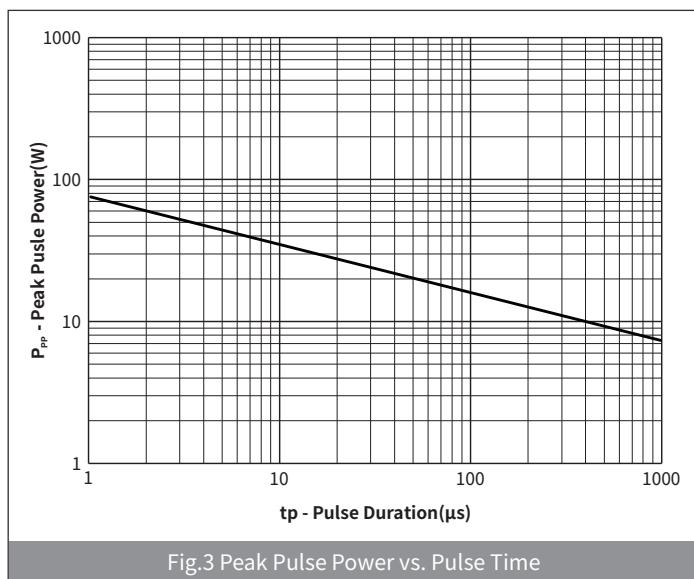
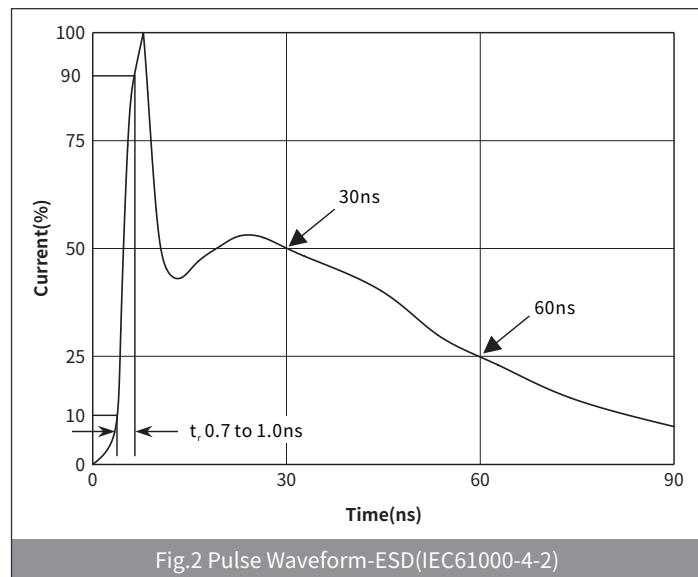
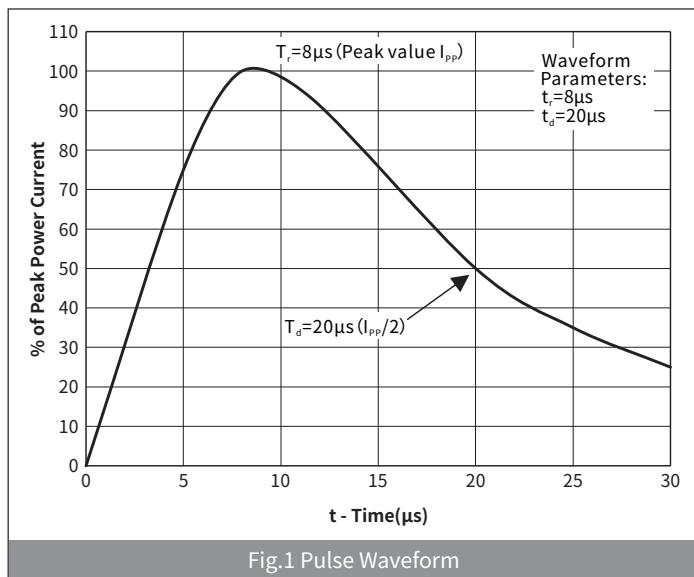
SYMBOL	PARAMETER
V _C	Clamping Voltage @ I _{PP}
V _{BR}	Breakdown Voltage @ I _T
I _{PP}	Peak Pulse Current
I _T	Test Current
I _R	Reverse Leakage Current @ VRWM
V _{RWM}	Peak Reverse Working Voltage
P _{PP}	Peak Pulse Power Dissipation
C _J	Junction Capacitance @ V _R =0V,f=1MHz
I _F	Forward Current
V _F	Forward Voltage @I _F



● Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	V _{RWM}	T _a =25°C	—	—	5.0	V
Breakdown Voltage	V _{BR}	I _R =1.0mA, T _a =25°C	6.0	—	10	V
Reverse Leakage Current	I _R	V _{RWM} =5V, T _a =25°C	—	—	0.2	μA
Clamping Voltage	V _C	I _{PP} =2.0A, t _p =8/20μs	—	—	12	V
Junction Capacitance	C _J	V _{RWM} =0V, f=1MHz	—	2.5	3.5	pF

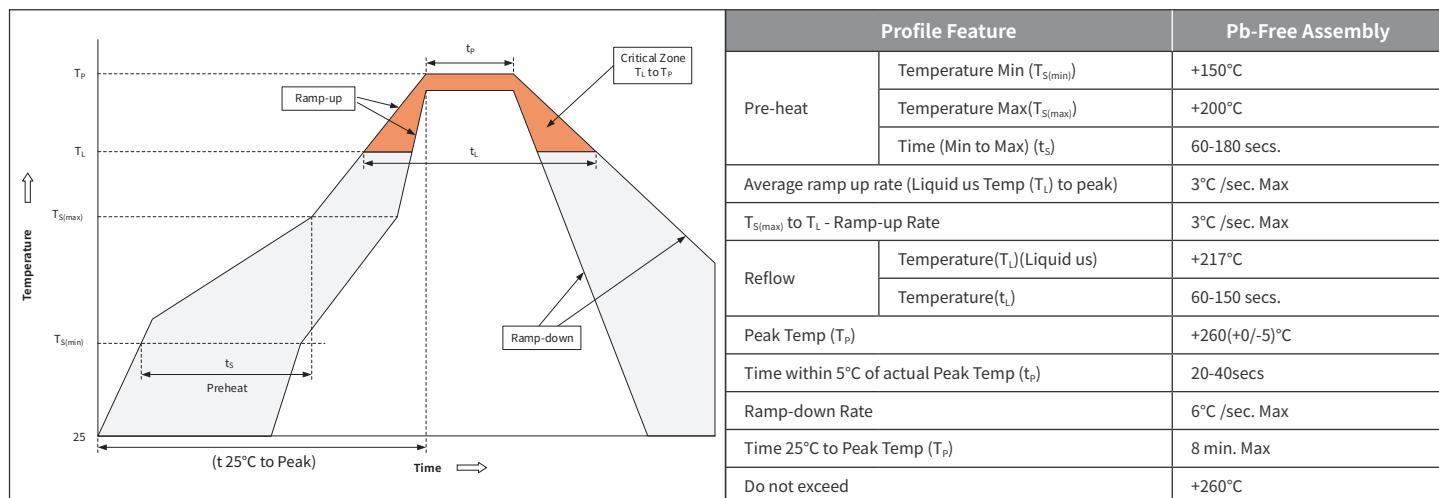
● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



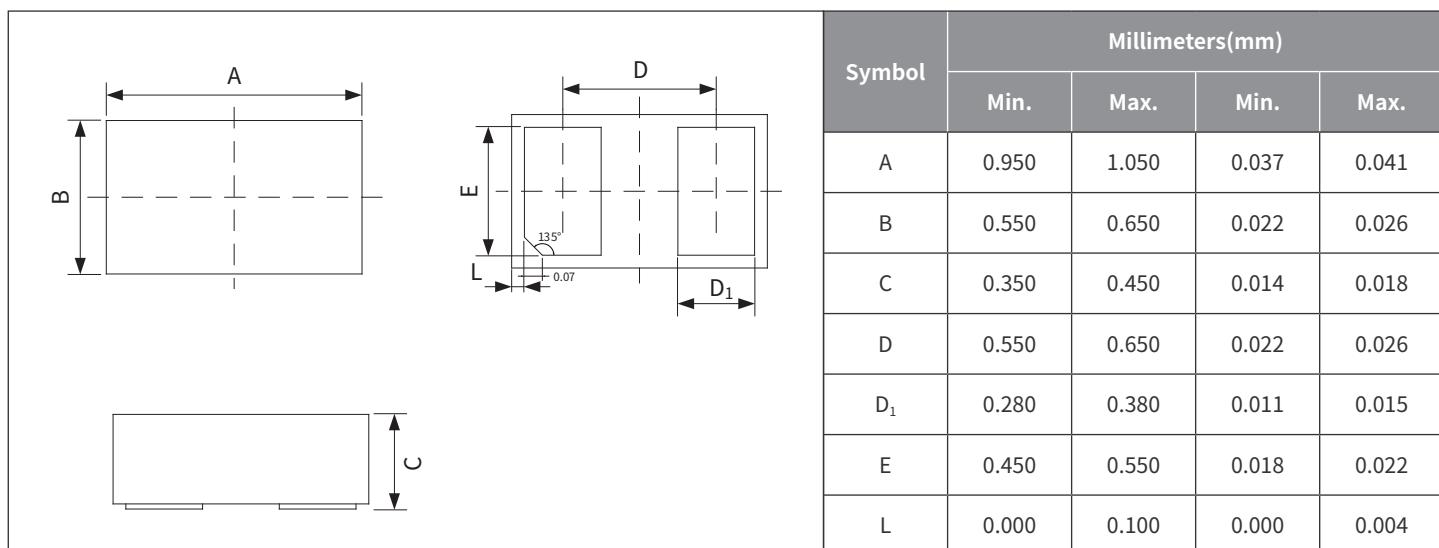
● Ordering Information

PREFERRED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H5VS10B	DFN1006-2L	1.00×0.60×0.37	7" REEL	10,000

● Recommended Soldering Conditions



● Package Outline Dimensions (DFN1006)



● Suggested Pad Layout

