

DFN1006-2L Plastic-Encapsulate ESD Protection Diodes

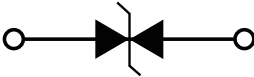
Features

- Low leakage current
- Low clamping voltage
- IEC 61000-4-2 (ESD Air): ±25kV
- IEC 61000-4-2 (ESD Contact): ±25kV
- IEC 61000-4-5 (Lightning 8/20μs): 5A

Applications

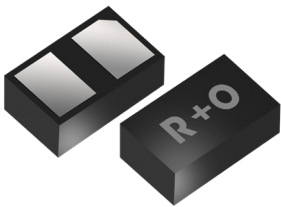
- Cellular Handsets and Accessories
- Notebooks and Handhelds
- Personal Digital Assistants
- Keypads, Side Keys, LCD Displays
- Audio Players, Peripherals
- Portable Instrumentation

Function Diagram



Reverse Working Voltage  
5.0 V Max.  
Low capacitance  
15pF(Typ.)

DFN1006-2L

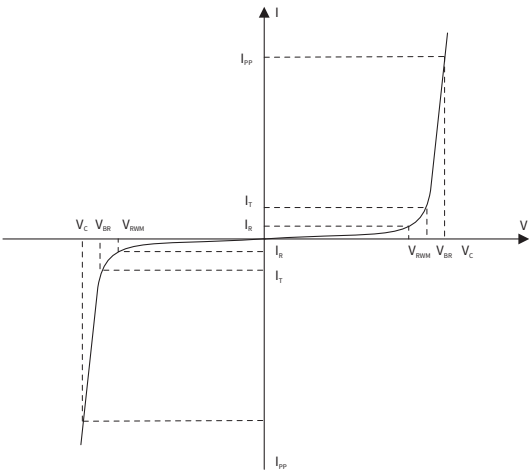


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
VESD	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2( Air )	±25	KV
		ESD per IEC 61000-4-2( Contact)	±25	KV
P <sub>PP</sub>	Peak Pulse Power	tp = 8/20 μs	50	W
I <sub>PP</sub>	Rated Peak Pulse Current	tp = 8/20 μs	5.0	A
T <sub>J</sub>	Operating JunctionTemperature Range	—	-55 to +125	°C
T <sub>STG</sub>	Operating JunctionTemperature Range	—	-55 to +125	°C

Electrical Parameter

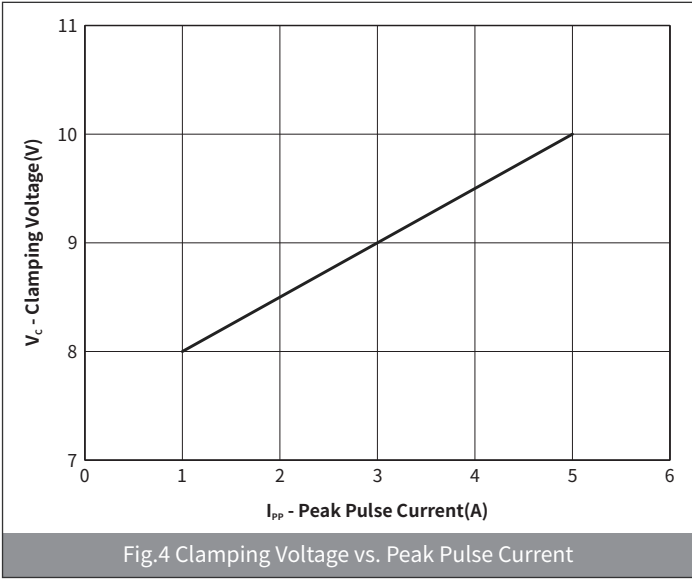
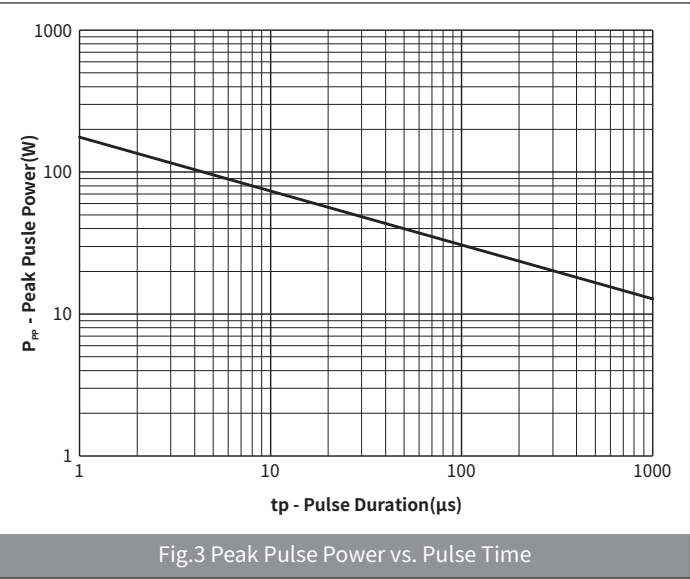
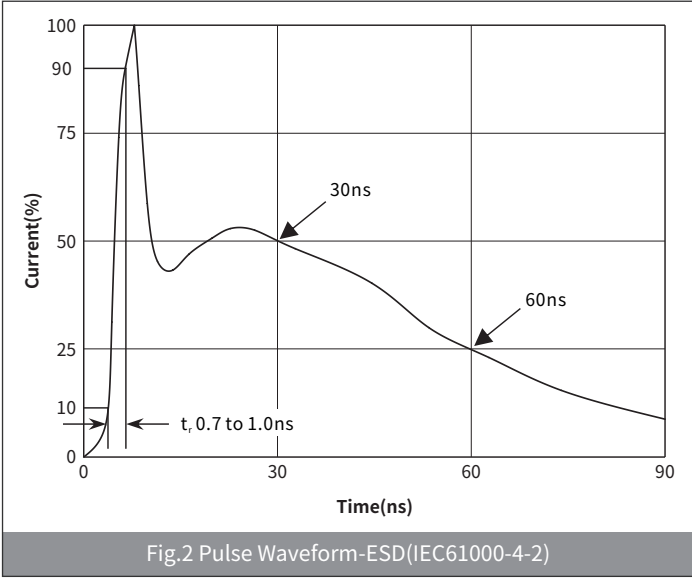
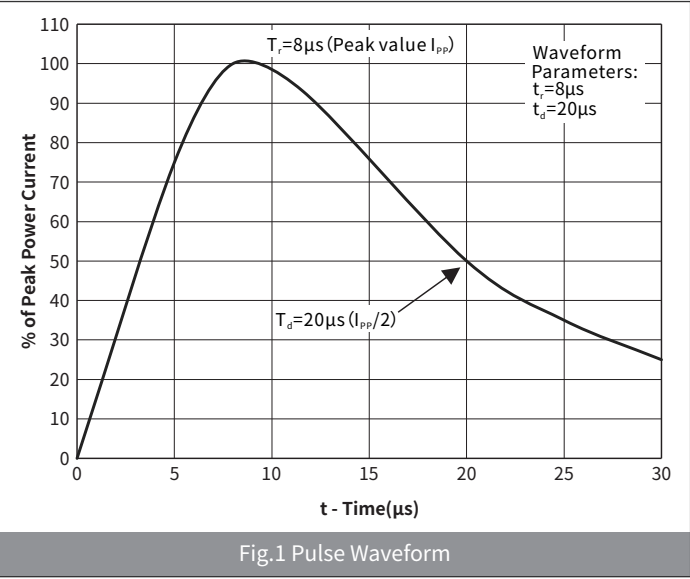
SYMBOL	PARAMETER
V <sub>C</sub>	Clamping Voltage @ I <sub>PP</sub>
V <sub>BR</sub>	Breakdown Voltage @ I <sub>T</sub>
I <sub>PP</sub>	Peak Pulse Current
I <sub>T</sub>	Test Current
I <sub>R</sub>	Reverse Leakage Current @ VRWM
V <sub>RWM</sub>	Peak Reverse Working Voltage
P <sub>PP</sub>	Peak Pulse Power Dissipation
C <sub>J</sub>	Junction Capacitance @ V <sub>R</sub> =0V,f=1MHz
I <sub>F</sub>	Forward Current
V <sub>F</sub>	Forward Voltage @I <sub>F</sub>



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

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	$V_{RWM}$	$T_a=25^{\circ}C$	—	—	5.0	V
Breakdown Voltage	$V_{BR}$	$I_T=1.0mA, T_a=25^{\circ}C$	5.6	6.5	8.0	V
Reverse Leakage Current	$I_R$	$V_{RWM}=5.0V, T_a=25^{\circ}C$	—	—	0.1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=1.0A, t_p=8/20\mu s$	—	—	8.0	V
		$I_{PP}=5.0A, t_p=8/20\mu s$	—	—	10.0	
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	—	15	18	pF

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



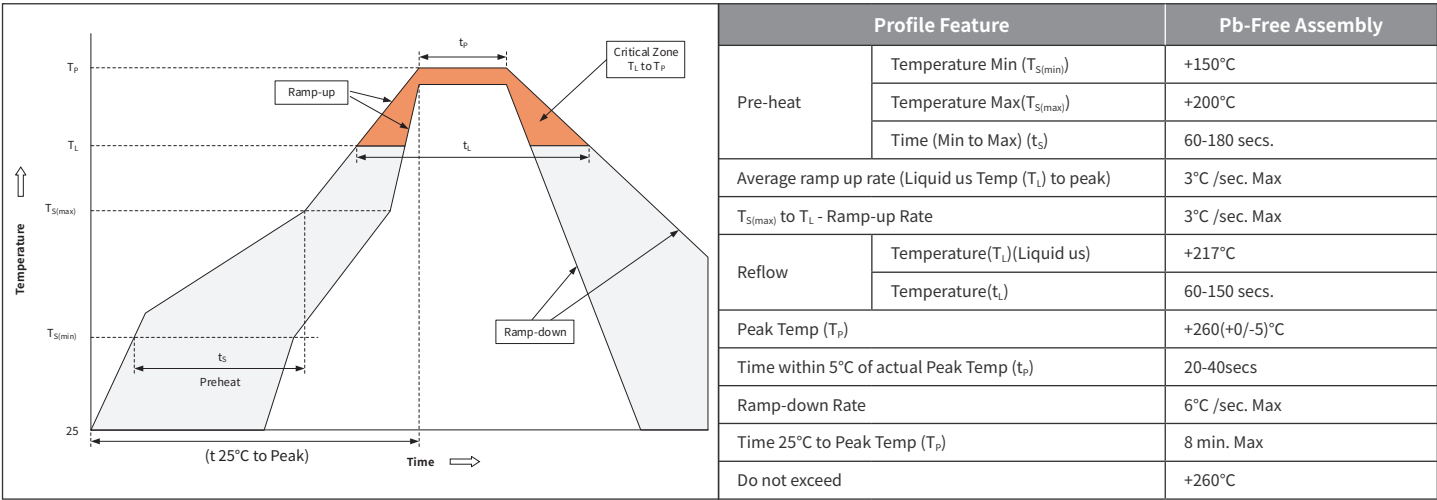
# H5VL10B

Bi-directional 5V Low Capacitance ESD

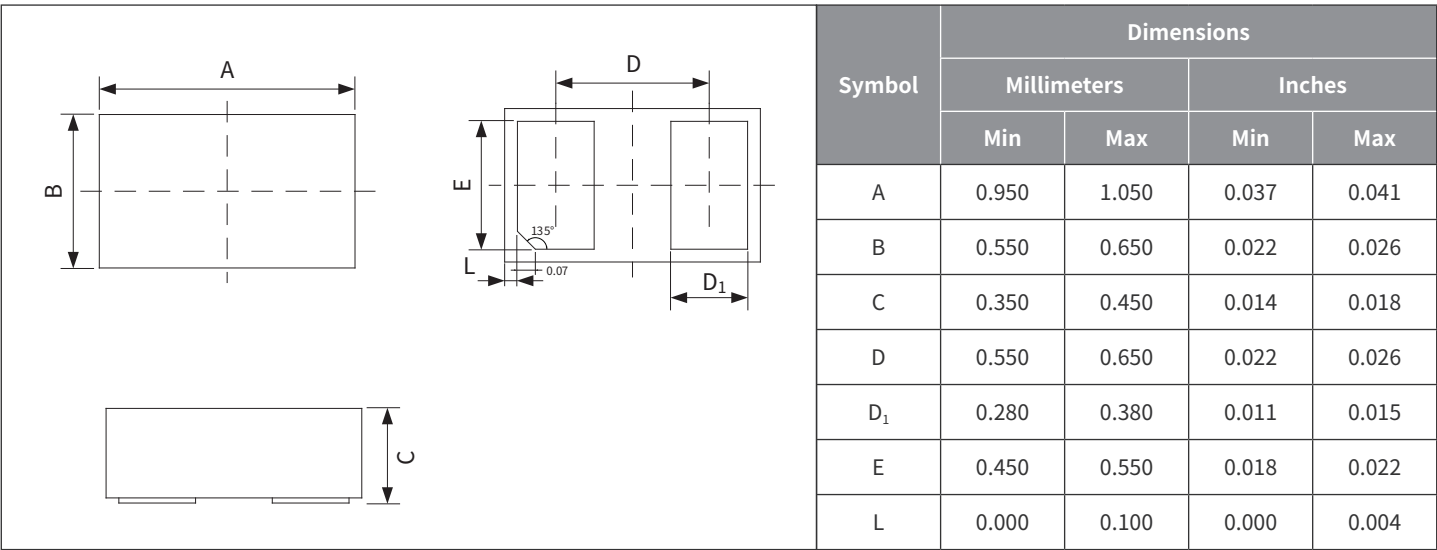
## Ordering Information

PREFERED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H5VL10B	DFN1006-2L	1.00×0.60×0.37	7" REEL	10,000

## Recommended Soldering Conditions



## Package Outline Dimensions (DFN1006-2L)



## Suggested Pad Layout

