

## DFN1006-2L Plastic-Encapsulate ESD Protection Diodes

### ● Features

- Low leakage current
- DFN1006-2L surface mount package
- IEC 61000-4-2 (ESD Air): ±15kV
- IEC 61000-4-2 (ESD Contact): ±12kV
- IEC 61000-4-5 (Lightning 8/20μs): 6A

### ● Applications

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

### ● Function Diagram



**Reverse Working Voltage**  
15V Max.  
**Low capacitance**  
0.45pF(Typ)

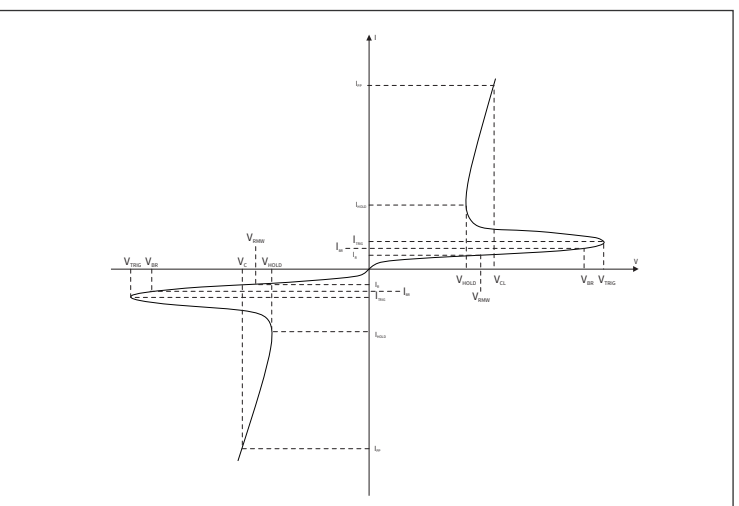


### ● Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>ESD</sub>	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2( Air )	±15	KV
		ESD per IEC 61000-4-2( Contact)	±12	KV
P <sub>PP</sub>	Peak Pulse Power	tp = 8/20 μs	48	W
I <sub>PP</sub>	Rated Peak Pulse Current	tp = 8/20 μs	6.0	A
T <sub>J</sub>	Operating JunctionTemperature Range	—	-55 to +125	°C
T <sub>STG</sub>	Operating JunctionTemperature Range	—	-55 to +150	°C

### ● Electrical Parameter

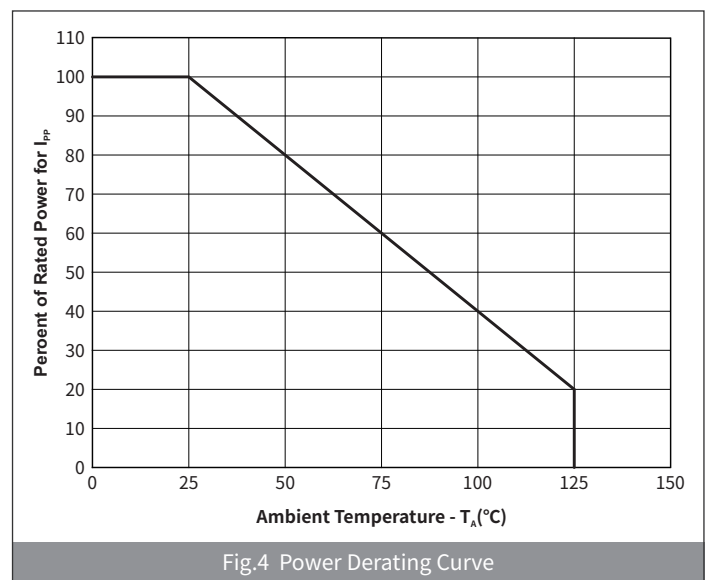
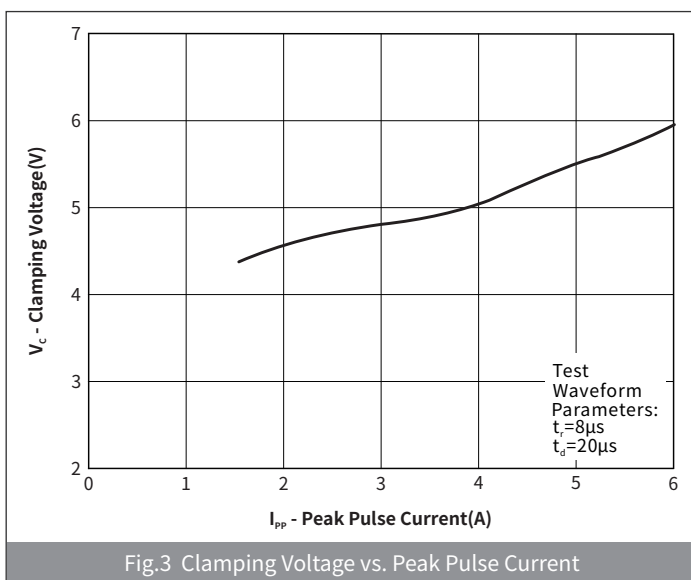
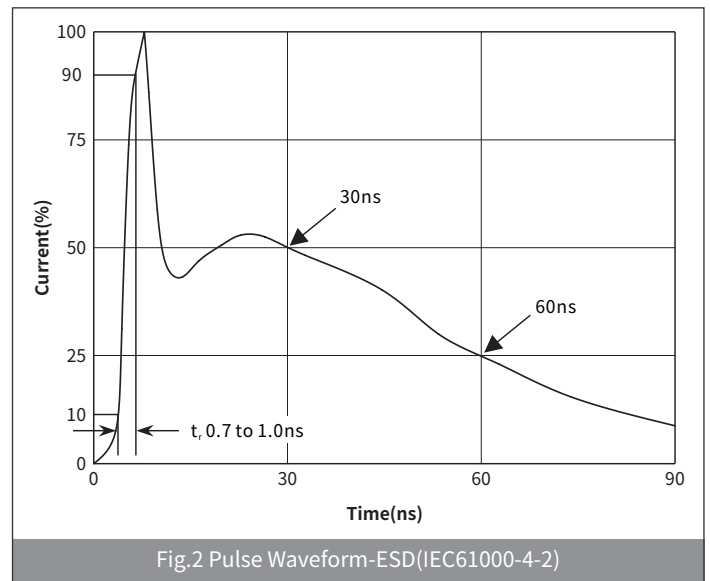
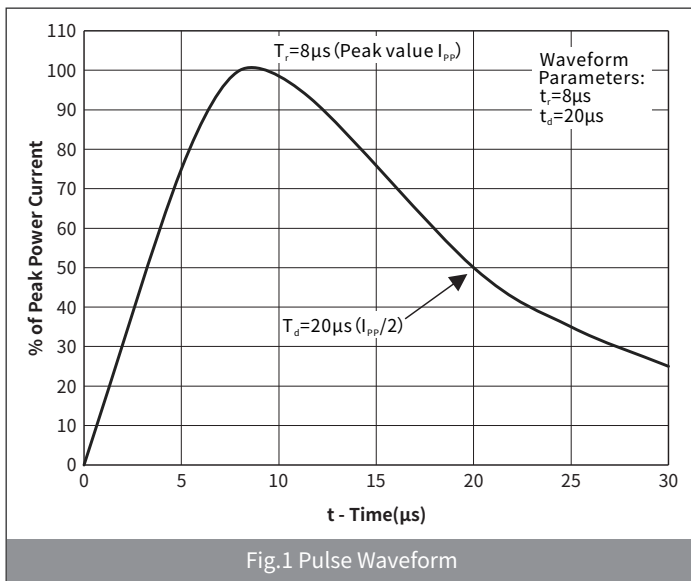
SYMBOL	PARAMETER
I <sub>PP</sub>	Peak Pulse Current @8/20μs
V <sub>C</sub>	Clamping Voltage @ I <sub>PP</sub>
I <sub>BR</sub> / I <sub>T</sub>	Test Current
V <sub>BR</sub>	Breakdown Voltage @ I <sub>T</sub>
V <sub>RWM</sub>	Peak Reverse Working Voltage
I <sub>R</sub>	Reverse Leakage Current @ V <sub>RWM</sub>
I <sub>TRIG</sub>	Reverse Trigger Current
V <sub>TRIG</sub>	Reverse Trigger Voltage
I <sub>HOLD</sub>	Reverse Holding Current
V <sub>HOLD</sub>	Reverse Holding Voltage
P <sub>PP</sub>	Peak Pulse Power Dissipation



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

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	$V_{RWM}$	$T_a=25^\circ\text{C}$	—	—	15	V
Breakdown Voltage	$V_{BR}$	$I_R=1\text{mA}, T_a=25^\circ\text{C}$	16.7	—	—	V
Reverse Leakage Current	$I_R$	$V_R=15\text{V}, T_a=25^\circ\text{C}$	—	—	0.5	$\mu\text{A}$
Clamping Voltage	$V_C$	$I_{PP}=6\text{A}, t_p=8/20\mu\text{s}$	—	6.0	8.0	V
Junction Capacitance	$C_J$	$V_R=0\text{V}, f=1\text{MHz}$	—	0.45	0.54	pF

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



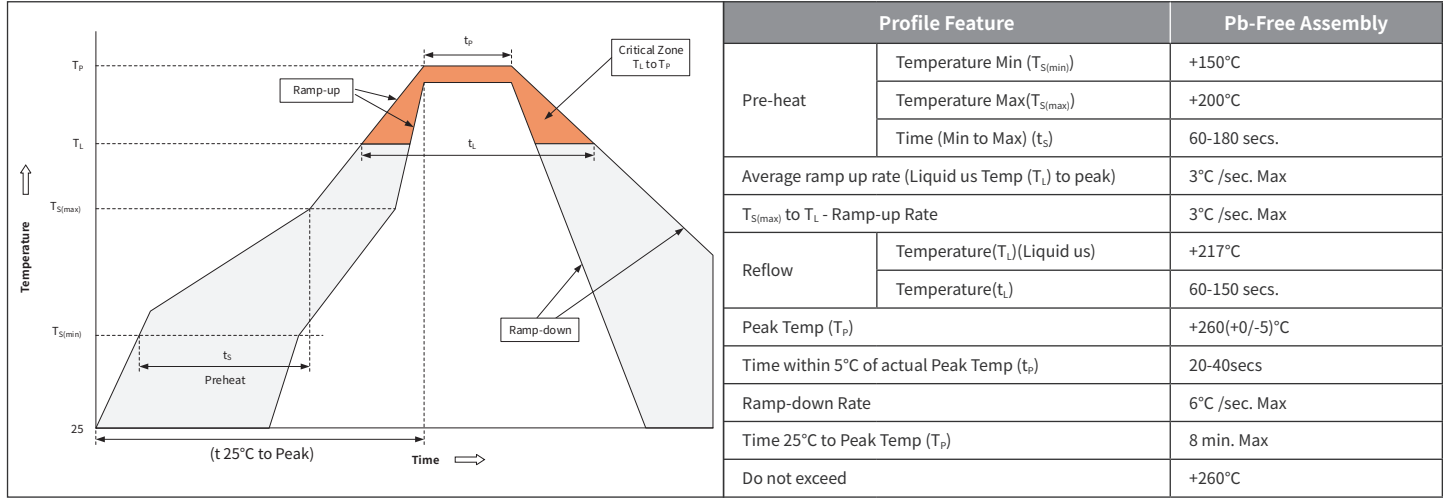
# H15VL10BS

Bi-directional 15V Low Capacitance ESD

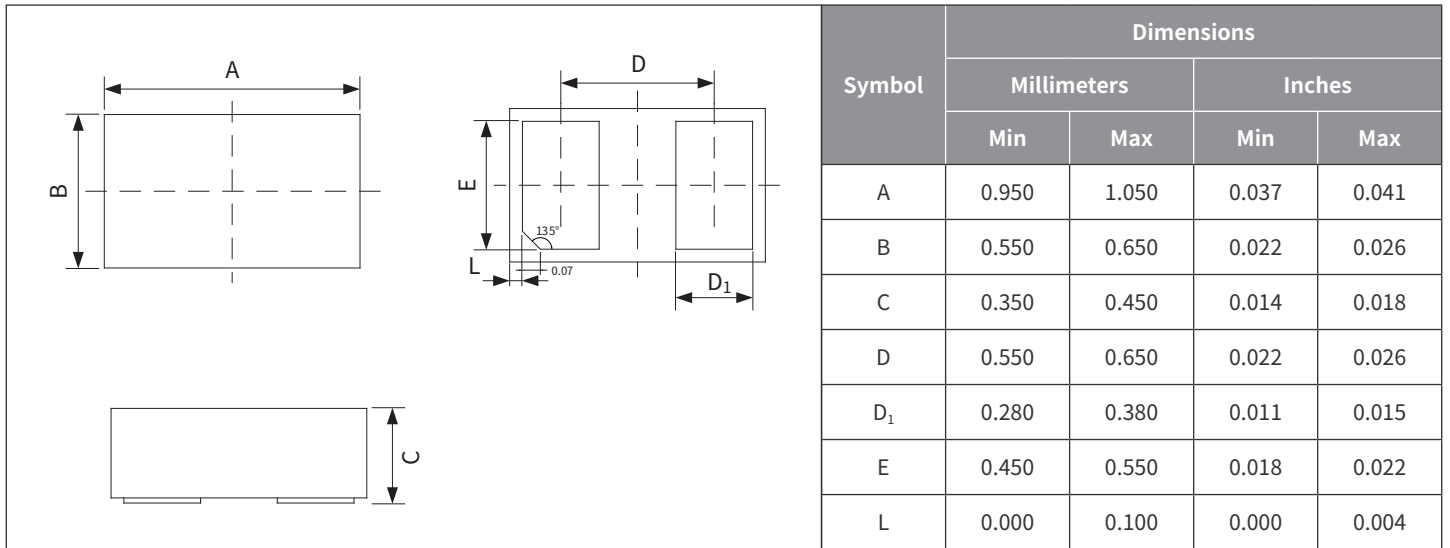
## Ordering Information

PREFERRED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H15VL10BS	DFN1006-2L	1.00×0.60×0.37	7" REEL	10,000

## Recommended Soldering Conditions



## Package Outline Dimensions (DFN1006-2L)



## Suggested Pad Layout

