

DFN2510-10L Plastic-Encapsulate ESD Protection Diodes

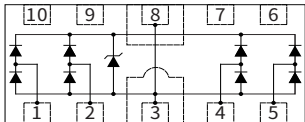
Features

- Low leakage current
- DFN2510-10L surface mount package
- IEC 61000-4-2 (ESD Air): ±15kV
- IEC 61000-4-2 (ESD Contact): ±10kV
- IEC 61000-4-5 (Lightning 8/20μs): 4A

Applications

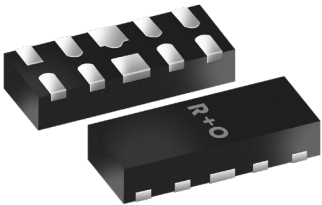
- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation,Digital Cameras
- Peripherals, Audio Players, Industrial Equipment
- Automotive

Function Diagram



Reverse Working Voltage
5V Max.
Ultra Small Capacitance
 $C_{I/O-GND}=0.8pF(Max.)$
 $C_{I/O-I/O}=0.5pF(Max.)$

DFN2510-10L

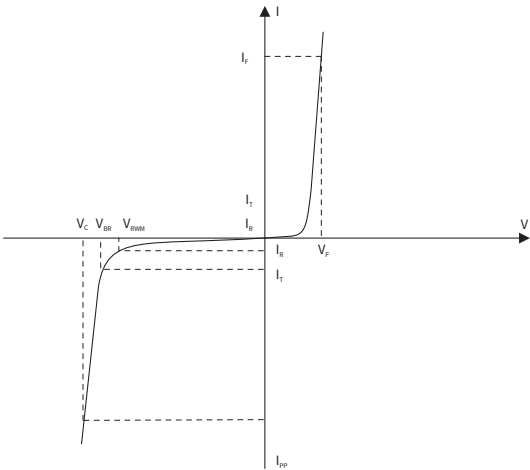


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{ESD}	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	±15	KV
		ESD per IEC 61000-4-2(Contact)	±10	KV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	56	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	4	A
T _J	Operating JunctionTemperature Range	—	-55 to +125	°C
T _{STG}	Operating JunctionTemperature Range	—	-55 to +150	°C

Electrical Parameter

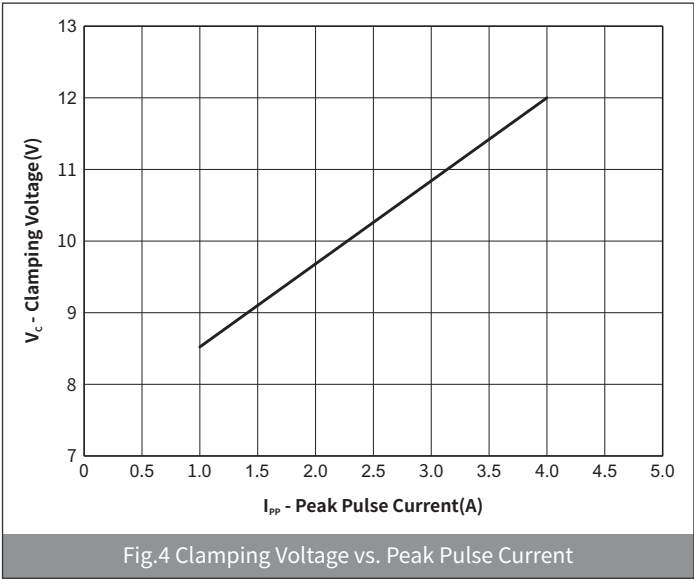
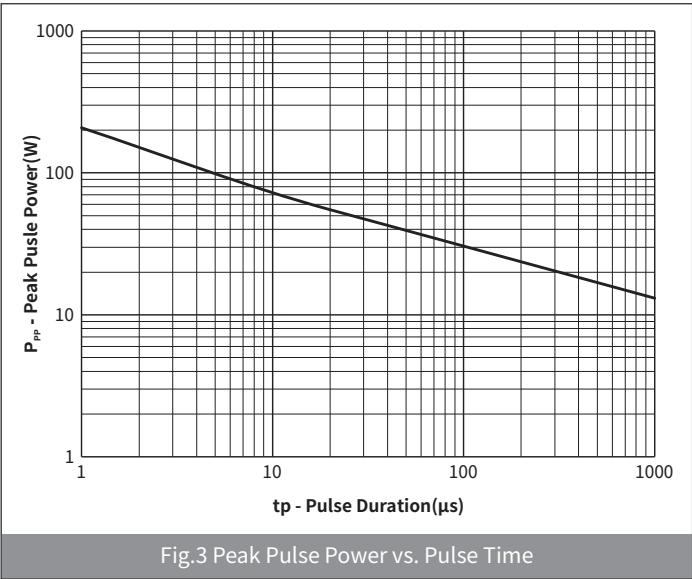
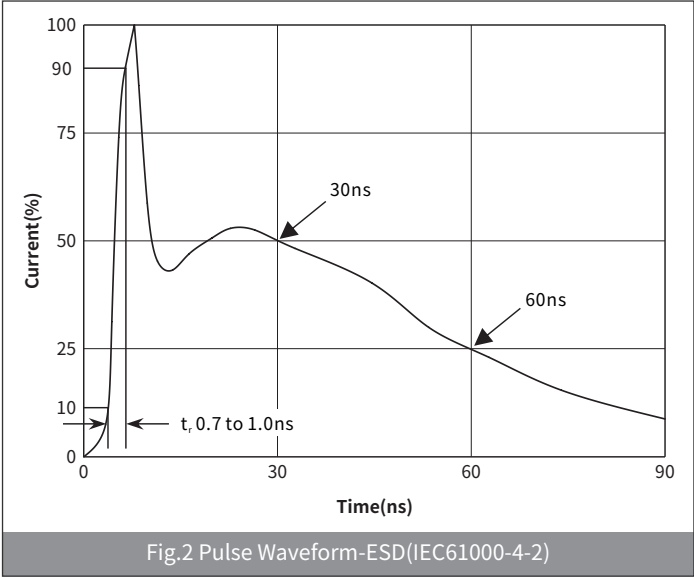
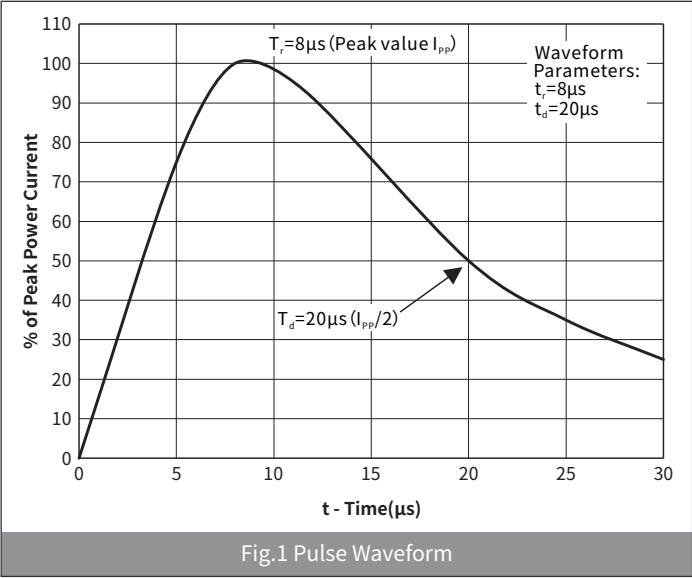
SYMBOL	PARAMETER
V _C	Clamping Voltage @ I _{PP}
V _{BR}	Breakdown Voltage @ I _T
I _{PP}	Peak Pulse Current
I _T	Test Current
I _R	Reverse Leakage Current @ VRWM
V _{RWM}	Peak Reverse Working Voltage
P _{PP}	Peak Pulse Power Dissipation
C _J	Junction Capacitance @ V _R =0V,f=1MHz
I _F	Forward Current
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}	$T_a=25^{\circ}C$	—	—	5	V
Breakdown Voltage	V_{BR}	$I_T=1mA, T_a=25^{\circ}C$	6	—	—	V
Reverse Leakage Current	I_R	$V_{RWM}=5.0V, T_a=25^{\circ}C$	—	—	1.0	μA
Clamping Voltage	V_C	$I_{PP}=1A, t_P=8/20\mu s$, Any I/O to GND , Positive	—	8.5	12	V
		$I_{PP}=4A, t_P=8/20\mu s$, Any I/O to GND , Positive	—	12	14	
Junction Capacitance	C_J	$V_R=0V, f=1\text{ MHz}$, I/O to I/O	—	0.4	0.5	pF
		$V_R=0V, f=1\text{ MHz}$, I/O to GND	—	0.6	0.8	

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



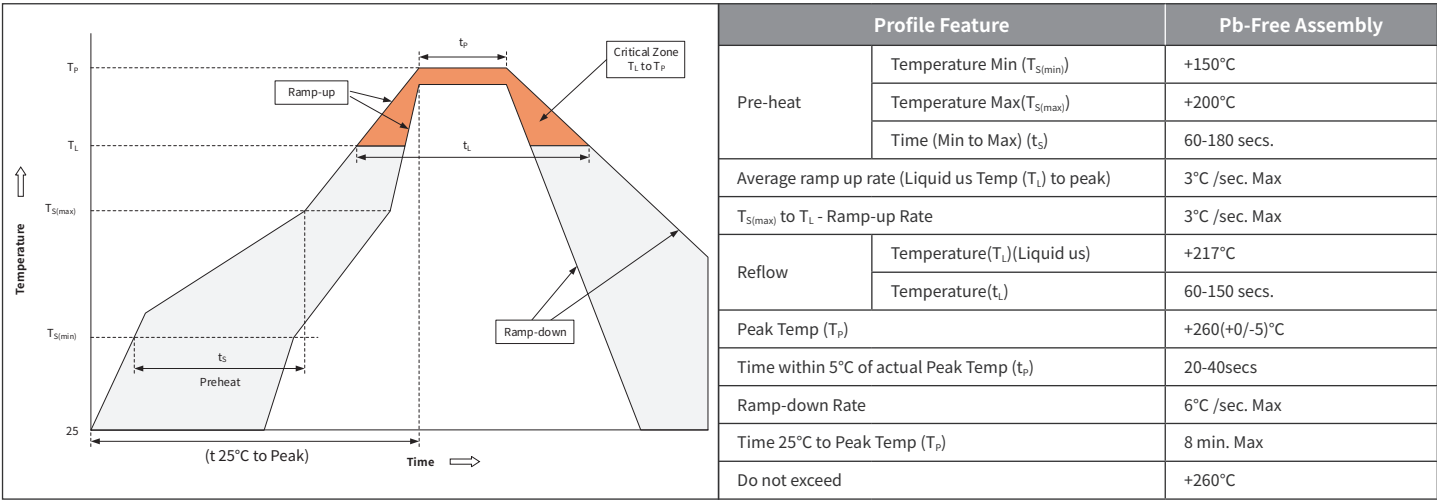
H5VU25U

Bi-directional 5V Ultra Small Capacitance ESD

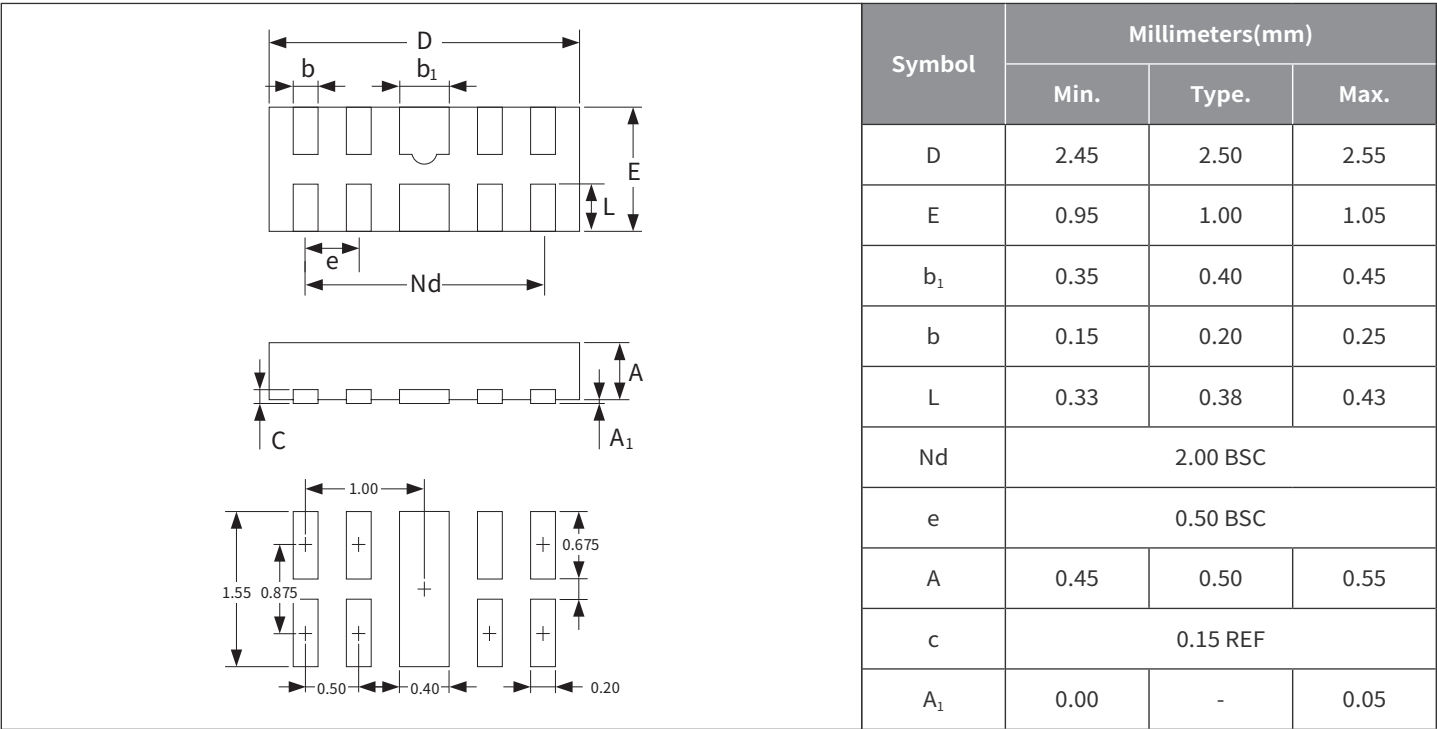
● Ordering Information

PREFERED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H5VU25U	DFN2510-10L	2.50×1.00×0.50	7" REEL	3000

● Recommended Soldering Conditions



● Package Outline Dimensions (DFN2510-10L)



Note :
This soldering footprint is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.