

DFN2020-3L Plastic-Encapsulate ESD Protection Diodes

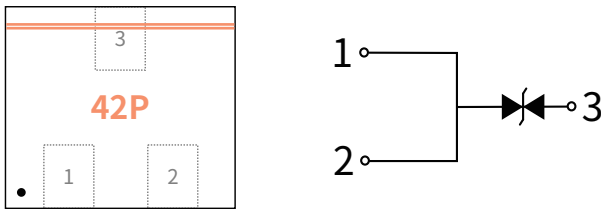
Features

- Low leakage current
- DFN2020-3L surface mount package
- IEC 61000-4-2 (ESD Air): ±30kV
- IEC 61000-4-2 (ESD Contact): ±30kV
- IEC 61000-4-5 (Lightning 8/20μs): 280A

Applications

- Power Management
- Industrial Application
- Power Supply Protection

Function Diagram

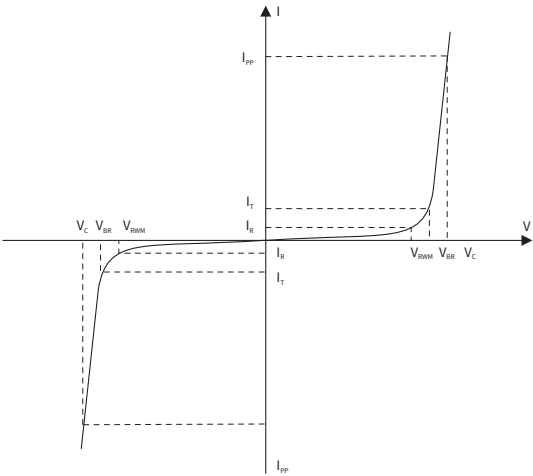


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{ESD}	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	±30	KV
		ESD per IEC 61000-4-2(Contact)	±30	KV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	5880	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	280	A
T _J	Operating JunctionTemperature Range	—	-55 to +125	°C
T _{STG}	Operating JunctionTemperature Range	—	-55 to +150	°C

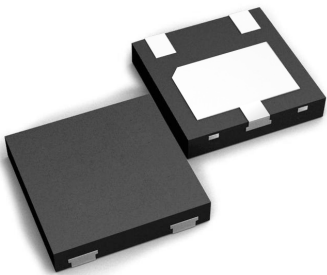
Electrical Parameter

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



Reverse Working Voltage
4.5V Max.
High capacitance
800pF(Max.)

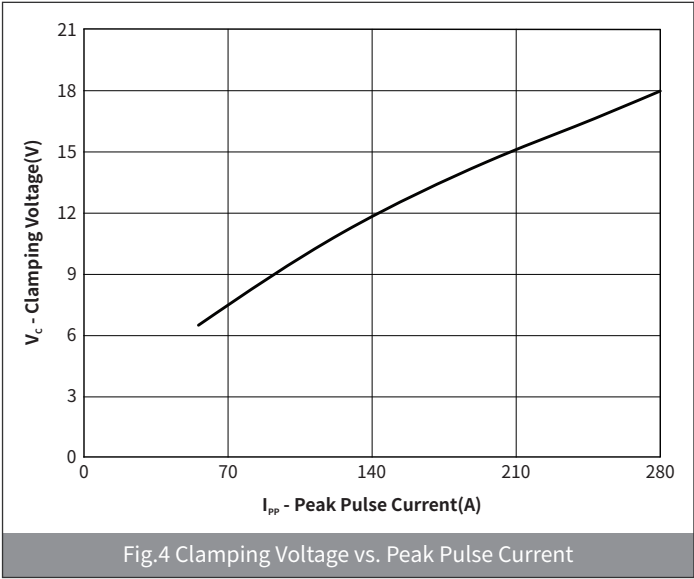
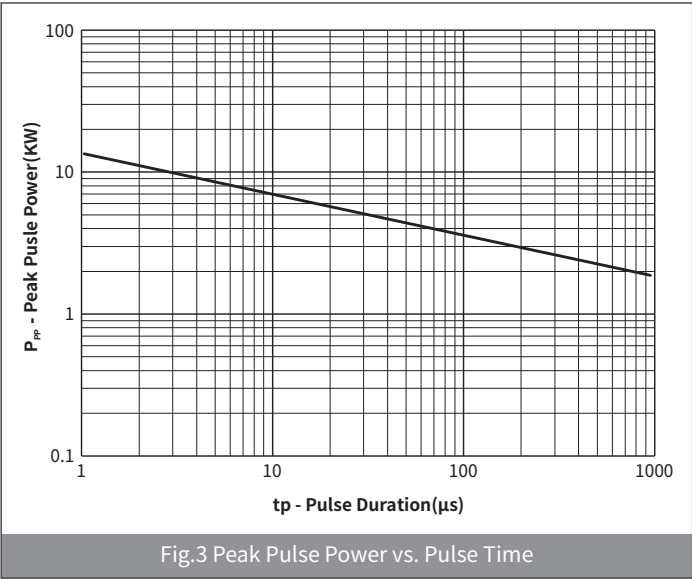
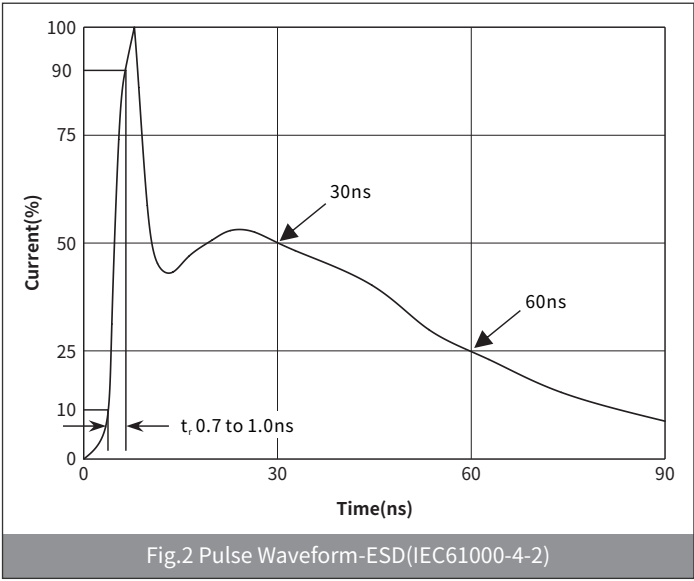
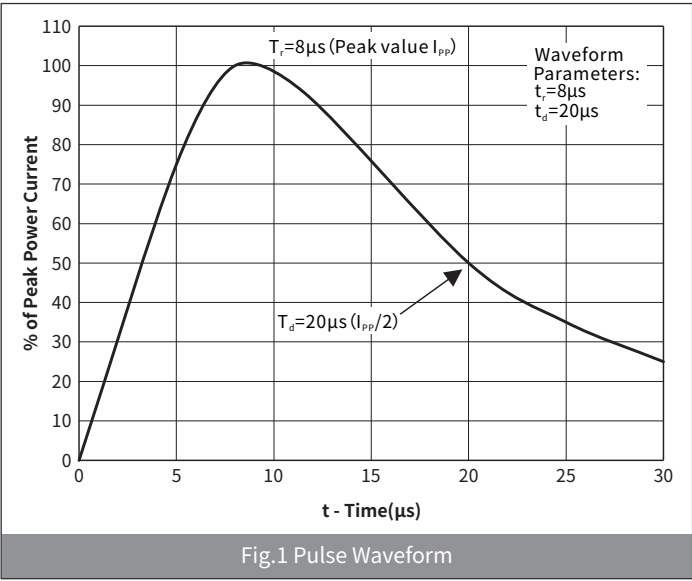
DFN2020-3L



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

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	V_{RWM}	$T_a=25^{\circ}C$	—	—	4.5	V
Breakdown Voltage	V_{BR}	$I_R=1.0mA, T_a=25^{\circ}C$	4.7	—	6	V
Reverse Leakage Current	I_R	$V_R=4.5V, T_a=25^{\circ}C$	—	—	1	μA
Clamping Voltage	V_C	$I_{PP}=50A, t_p=8/20\mu s$	—	—	8.5	V
		$I_{PP}=280A, t_p=8/20\mu s$	—	—	21	
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	—	650	800	pF

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



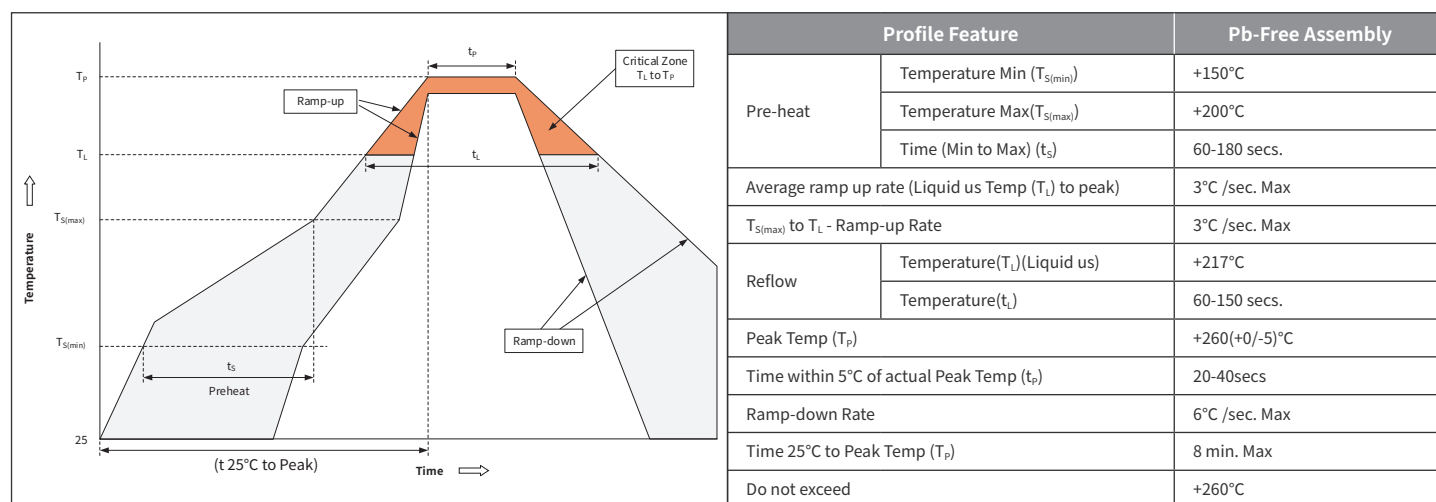
H4V5H22B

Bi-directional 4.5V High Capacitance ESD

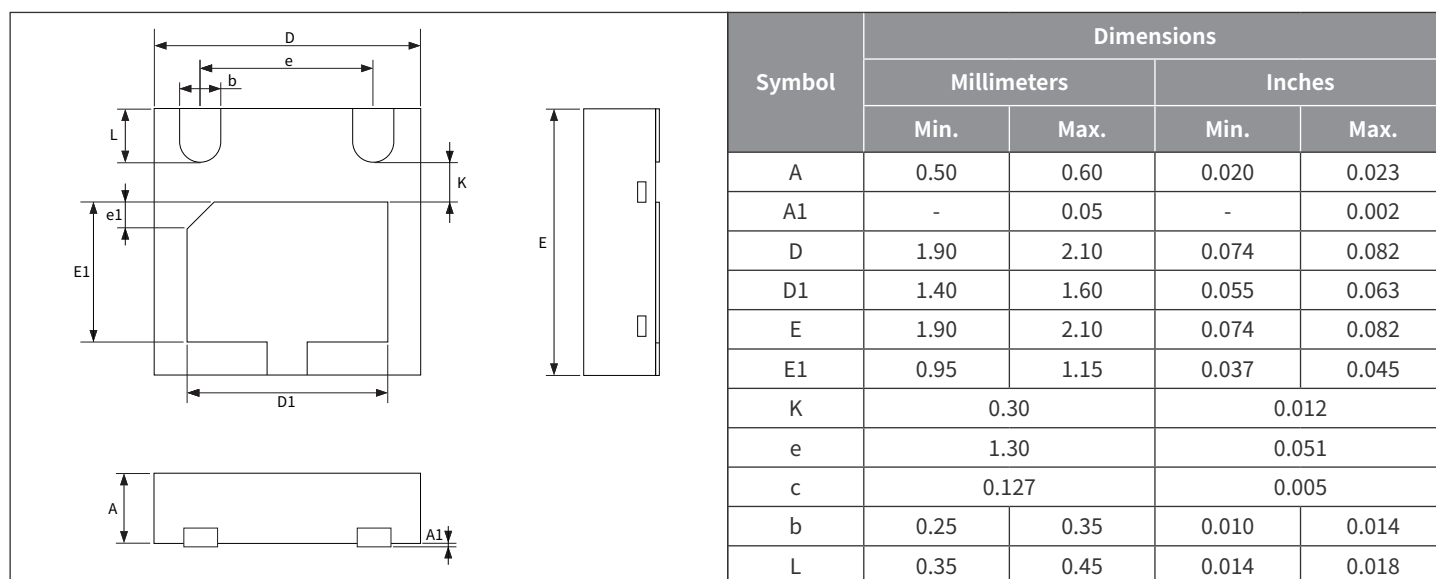
● Ordering Information

PREFERED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H4V5H22B	DFN2020-3L	2.00×2.00×0.55	7" REEL	3000

● Recommended Soldering Conditions



● Package Outline Dimensions (DFN2020-3L)



● Suggested Pad Layout

