

DFN0603-2L Plastic-Encapsulate ESD Protection Diodes

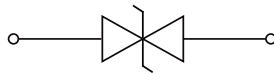
Features

- Low leakage current
- Low clamping voltage
- IEC 61000-4-2 (ESD Air): $\pm 25\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 20\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 3.5A

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
12V Max.
Small capacitance
3.5pF(Max.)

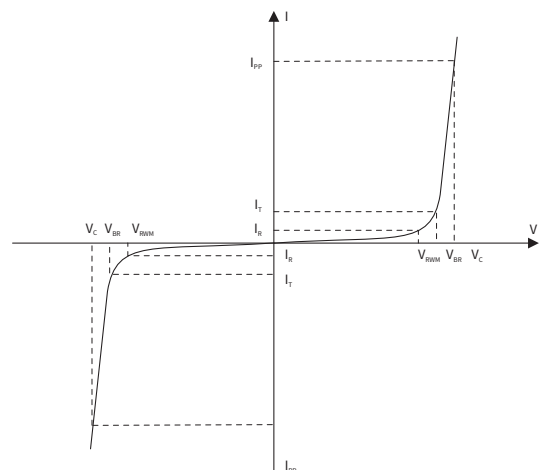


Maximum Ratings (Ta=25°C Unless otherwise specified)

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)	± 20	KV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	85	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	3.5	A
T _J	Operating Junction Temperature Range	—	-55 to +125	°C
T _{STG}	Operating Junction Temperature Range	—	-55 to +125	°C

Electrical Parameter

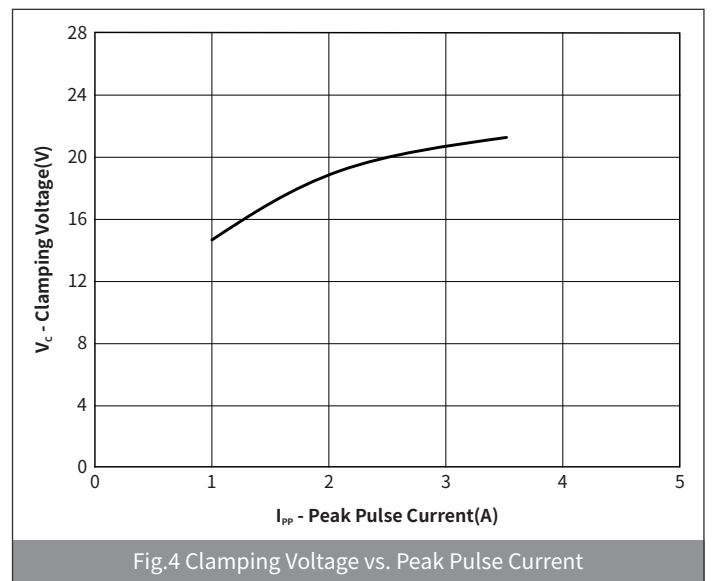
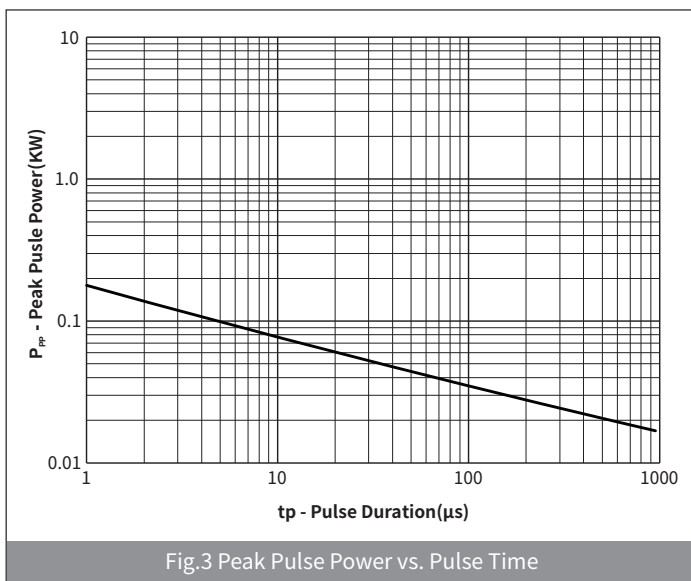
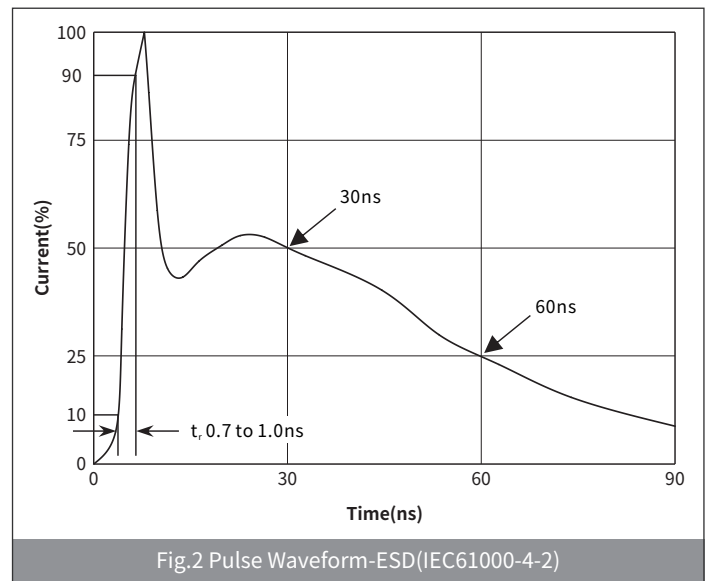
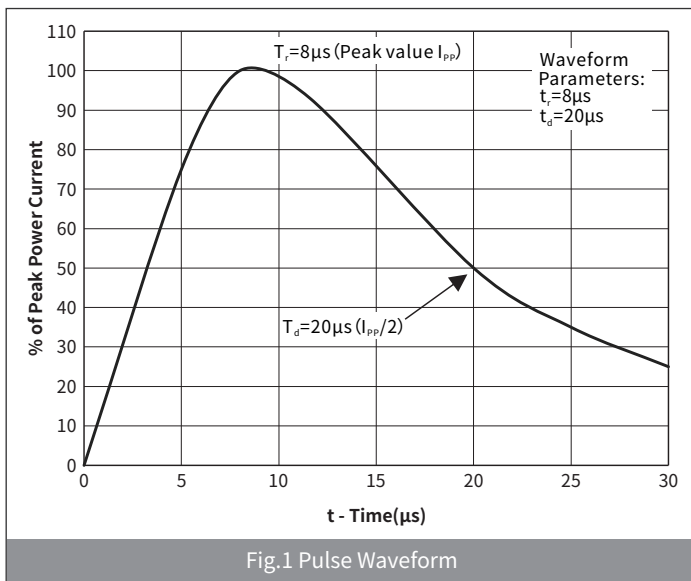
SYMBOL	PARAMETER
V _C	Clamping Voltage @ I _{PP}
V _{BR}	Breakdown Voltage @ I _T
I _{PP}	Peak Pulse Current
I _T	Test Current
I _R	Reverse Leakage Current @ VRWM
V _{RWM}	Peak Reverse Working Voltage
P _{PP}	Peak Pulse Power Dissipation
C _J	Junction Capacitance @ V _R =0V, f=1MHz
I _F	Forward Current
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}	$T_a=25^\circ\text{C}$	—	—	12	V
Breakdown Voltage	V_{BR}	$I_R=1.0\text{mA}, T_a=25^\circ\text{C}$	12.6	—	16.5	V
Reverse Leakage Current	I_R	$V_R=12\text{V}, T_a=25^\circ\text{C}$	—	—	0.5	μA
Clamping Voltage	V_C	$I_{PP}=1.0\text{A}, t_p=8/20\mu\text{s}$	—	—	16	V
		$I_{PP}=3.5\text{A}, t_p=8/20\mu\text{s}$	—	—	24	
Junction Capacitance	C_J	$V_{RWM}=0\text{V}, f=1\text{MHz}$	—	—	3.5	pF

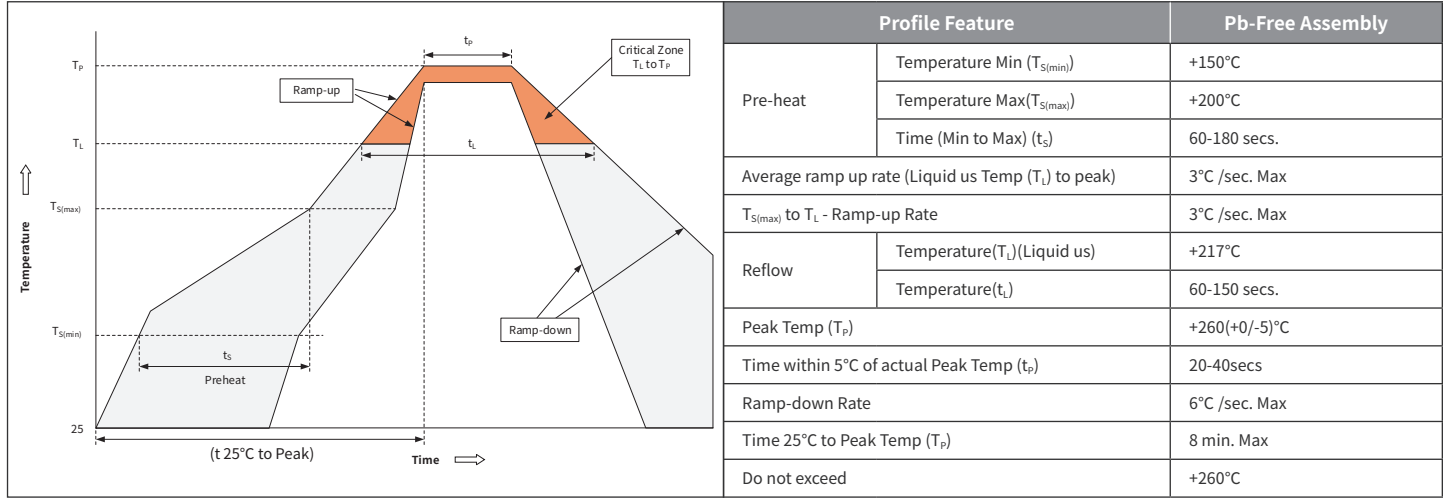
Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



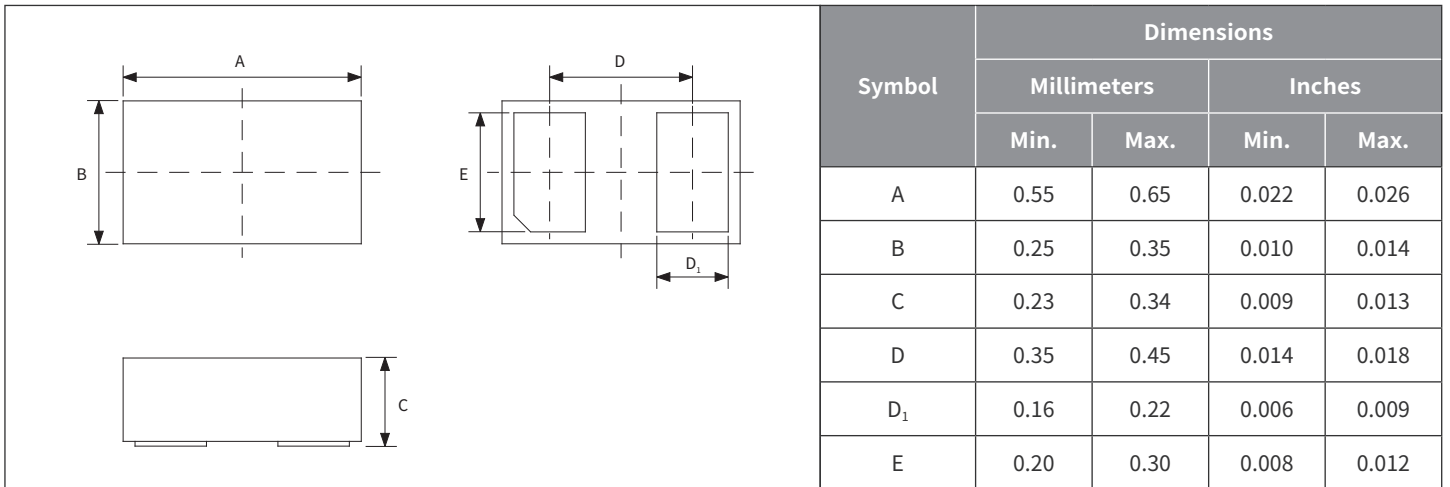
Ordering Information

PREFERRED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H12VS06B	DFN0603-2L	0.6×0.30×0.30	7" REEL	15,000

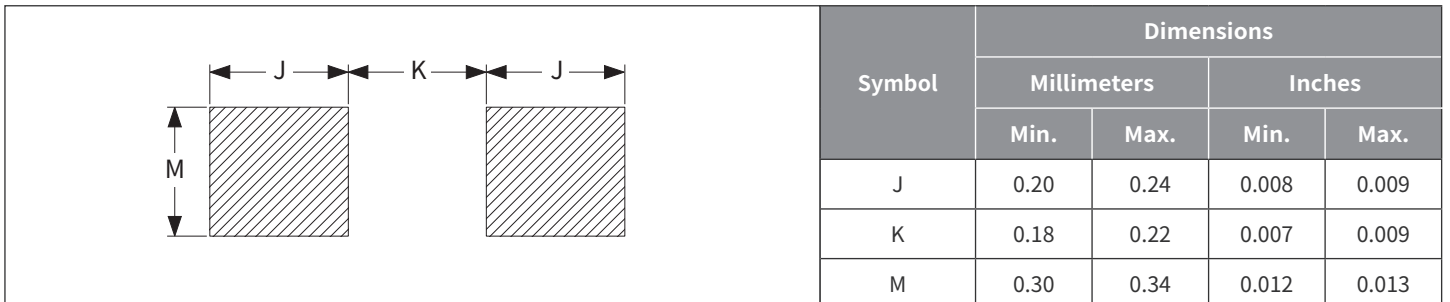
Recommended Soldering Conditions



Package Outline Dimensions (DFN0603-2L)



Suggested Pad Layout



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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)