

Features

- Low leakage current
- DFN0603-2L surface mount package
- IEC 61000-4-2 (ESD Air): ±30kV
- IEC 61000-4-2 (ESD Contact): ±30kV
- IEC 61000-4-5 (Lightning 8/20μs): 8A

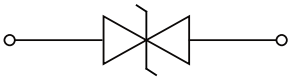
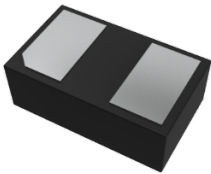
Reverse Working Voltage
3.3V Max.

Low capacitance
12pF(Typ.)

DFN0603

Applications

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



Maximum Ratings (Ta=25℃ 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	80	W
I _{pp}	Rated Peak Pulse Current	tp = 8/20 μs	8	A
T _J	Operating JunctionTemperature Range	—	-55 to +125	℃
T _{STG}	Operating JunctionTemperature Range	—	-55 to +150	℃

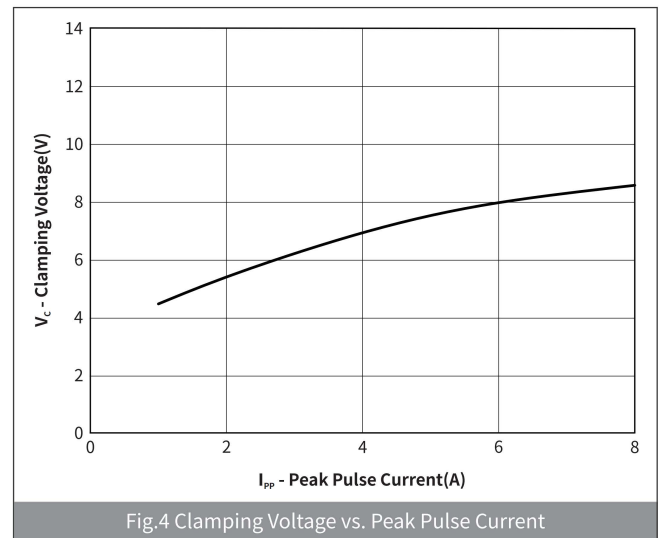
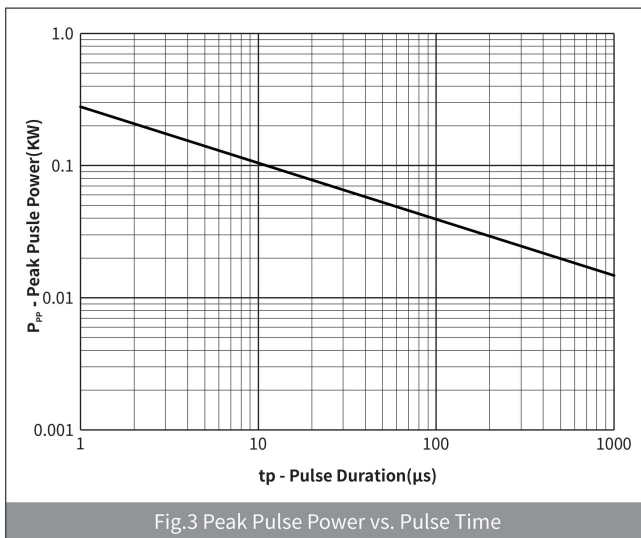
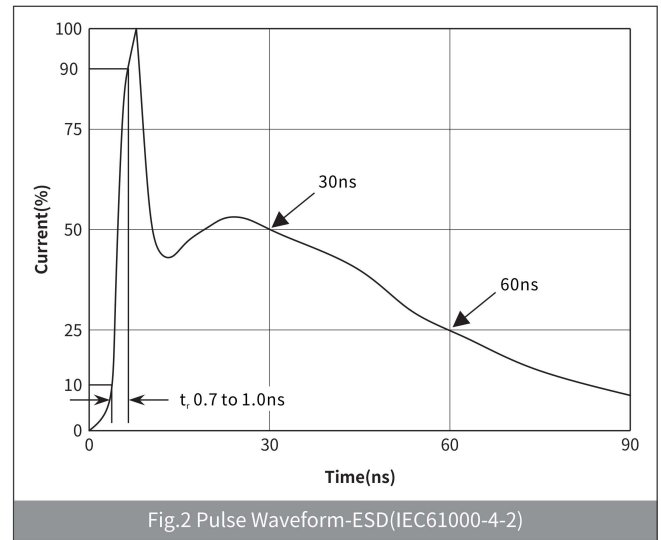
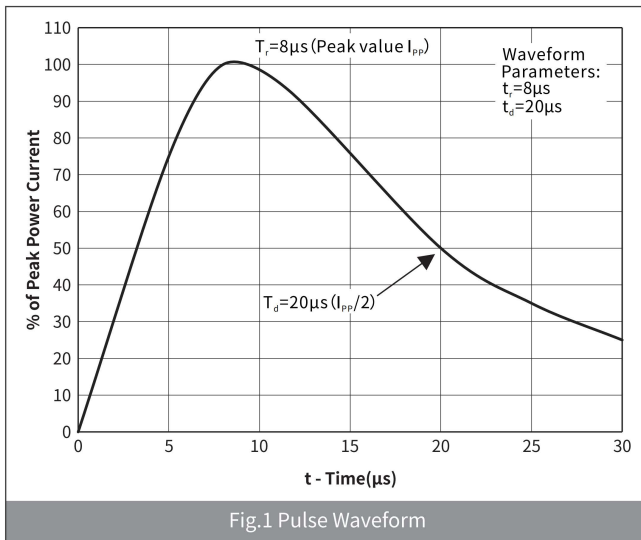
Electrical Parameter

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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	V_{RWM}	$T_a=25^\circ\text{C}$	—	—	3.3	V
Breakdown Voltage	V_{BR}	$I_R=1\text{mA}, T_a=25^\circ\text{C}$	3.5	—	6.0	V
Reverse Leakage Current	I_R	$V_R=3.3\text{V}, T_a=25^\circ\text{C}$	—	—	0.2	μA
Clamping Voltage	V_C	$I_{PP}=1.0\text{A}, t_p=8/20\mu\text{s}$	—	—	6	V
		$I_{PP}=5.0\text{A}, t_p=8/20\mu\text{s}$	—	—	8	
		$I_{PP}=8\text{A}, t_p=8/20\mu\text{s}$	—	—	10	
Junction Capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$	—	12	18	pF

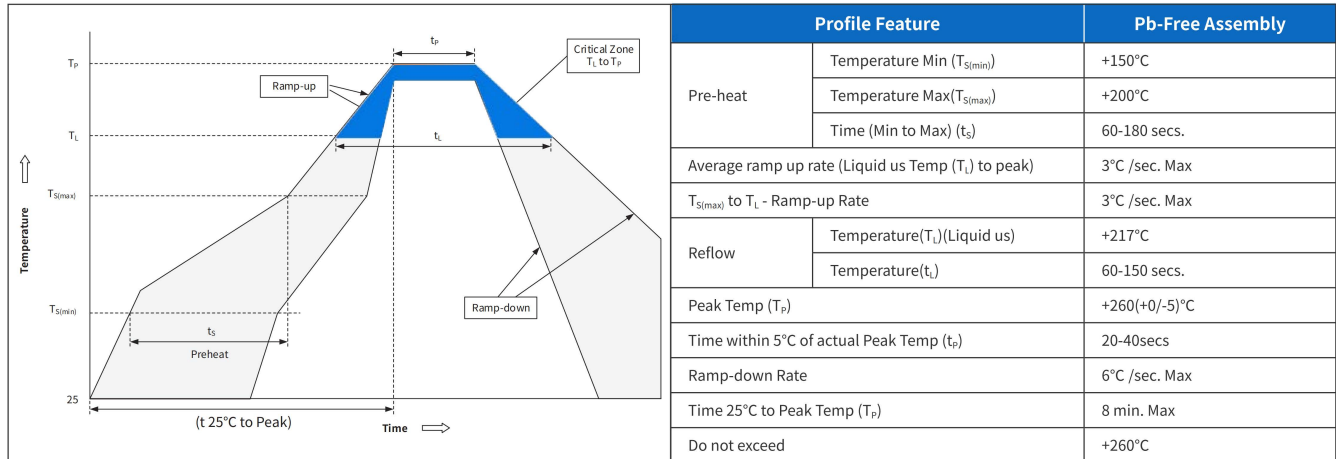
Ratings And Characteristics Curves ($T_a=25^\circ\text{C}$ Unless otherwise specified)



Ordering Information

PREFERRED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H3V3L06B	DFN0603-2L	0.6×0.30×0.30	7"REEL	15,000

Recommended Soldering Conditions



Package Outline Dimensions (DFN0603-2L)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.55	0.65	0.022	0.026
B	0.25	0.35	0.010	0.014
C	0.23	0.34	0.009	0.013
D	0.35	0.45	0.014	0.018
D ₁	0.16	0.22	0.006	0.009
E	0.20	0.30	0.008	0.012

Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	0.20	0.24	0.008	0.009
K	0.18	0.22	0.007	0.009
M	0.30	0.34	0.012	0.013