

Features

- Low capacitance: 15pF(Typ.)
- Reverse Working Voltage: 5V
- Bi-directional protection
- DFN0603 surface mount package
- IEC 61000-4-2 (ESD Air): $\pm 30\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 30\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 8A

Applications

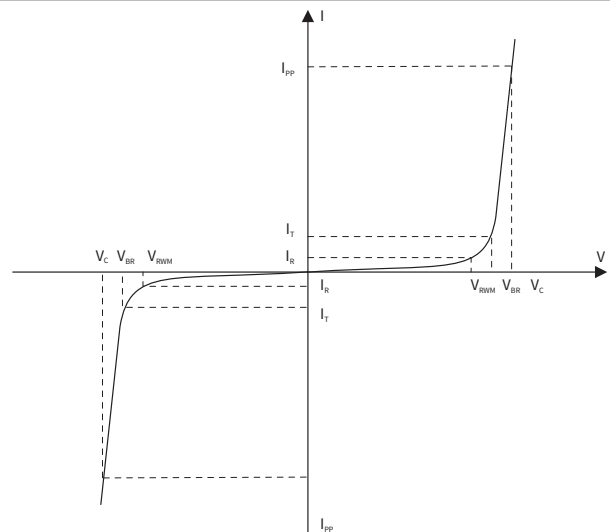
- Smart Phone and Tablet PC
- TV and Set Top Box
- Wearable Devices
- Digital cameras
- PADS

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

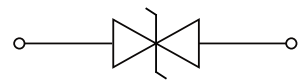
SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{ESD}	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	± 30	KV
		ESD per IEC 61000-4-2(Contact)	± 30	KV
P_{PP}	Peak Pulse Power	$t_p = 8/20 \mu\text{s}$	80	W
I_{PP}	Rated Peak Pulse Current	$t_p = 8/20 \mu\text{s}$	7	A
T_J	Operating JunctionTemperature Range	—	-55 to +125	°C
T_{stg}	Storage Temperature 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 @ V_{RWM}
V_{RWM}	Peak Reverse Working Voltage
P_{PP}	Peak Pulse Power Dissipation
C_J	Junction Capacitance @ $V_r=0\text{V}, f=1\text{MHz}$



DFN0603

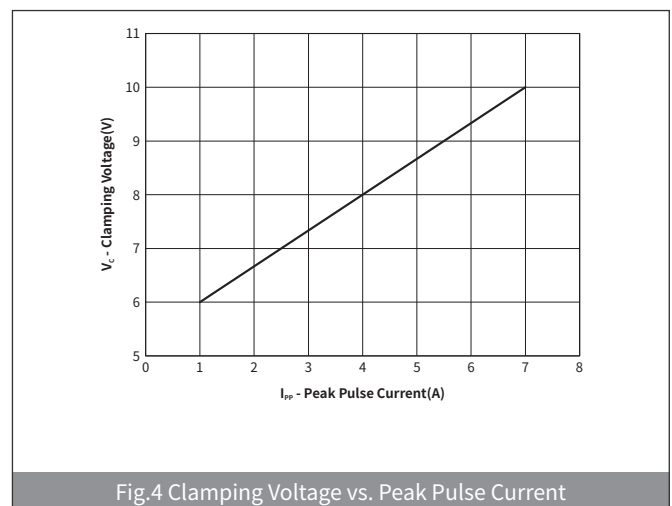
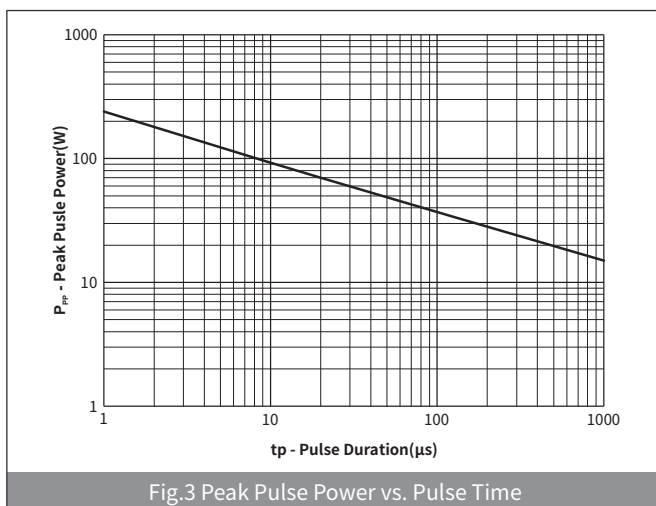
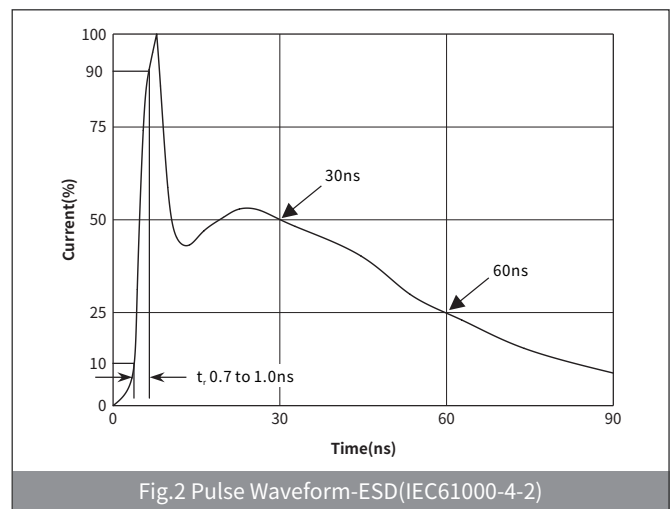
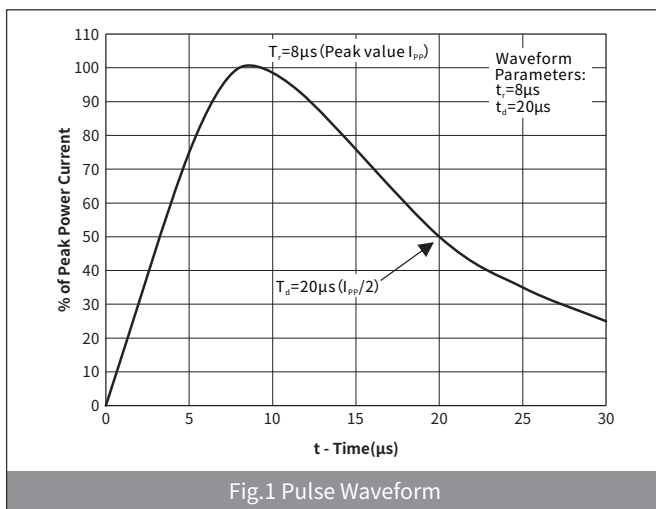


Electrical Characteristics ($T_A=25^\circ\text{C}$ Unless otherwise specified)

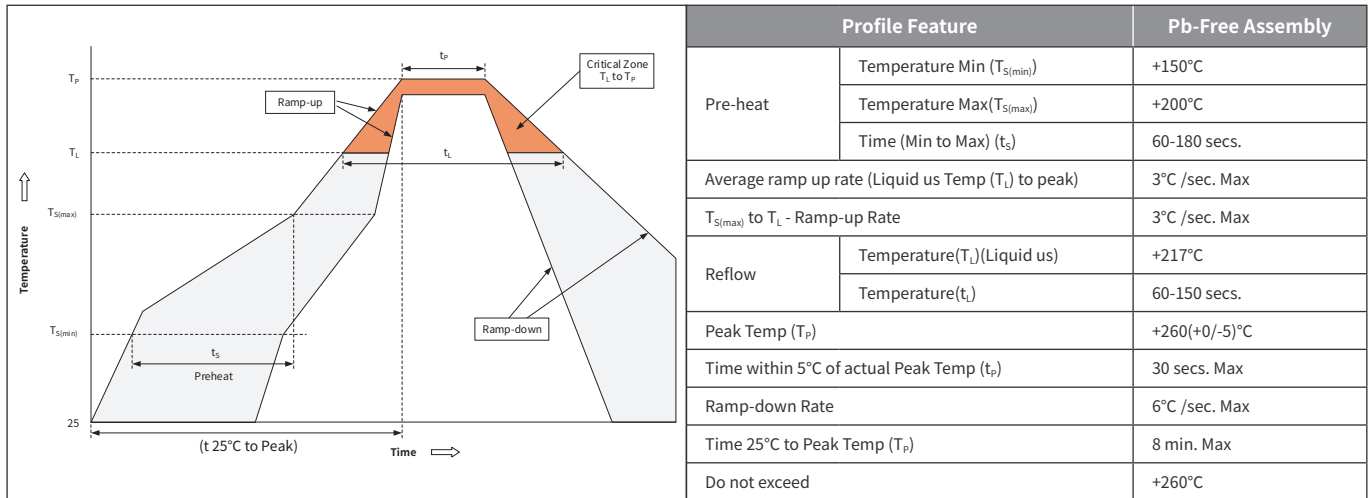
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Reverse Working Voltage	V_{RWM}	$T_A=25^\circ\text{C}$	—	—	5.0	V
Breakdown Voltage	V_{BR}	$I_T=1\text{mA}; T_A=25^\circ\text{C}$	5.6	—	8.4	V
Reverse Leakage Current	I_R	$V_{RWM}=5.0\text{V}; T_A=25^\circ\text{C}$	—	—	0.1	μA
Clamping Voltage	V_C	$I_{PP}=1.0\text{A}, t_p=8/20\mu\text{s}$	—	—	6.0	V
		$I_{PP}=7.0\text{A}, t_p=8/20\mu\text{s}$	—	—	10.0	V
Junction Capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$	—	15	20	pF

Ordering Information

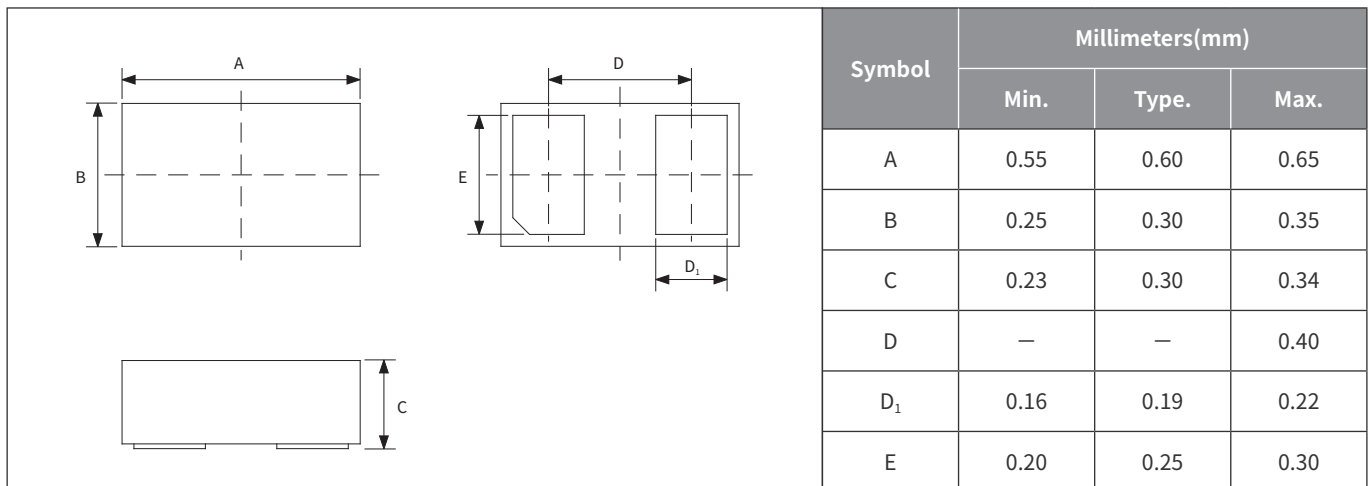
PREFERRED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H5VL06B	DFN0603	0.60×0.30×0.30	7" REEL	15,000

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


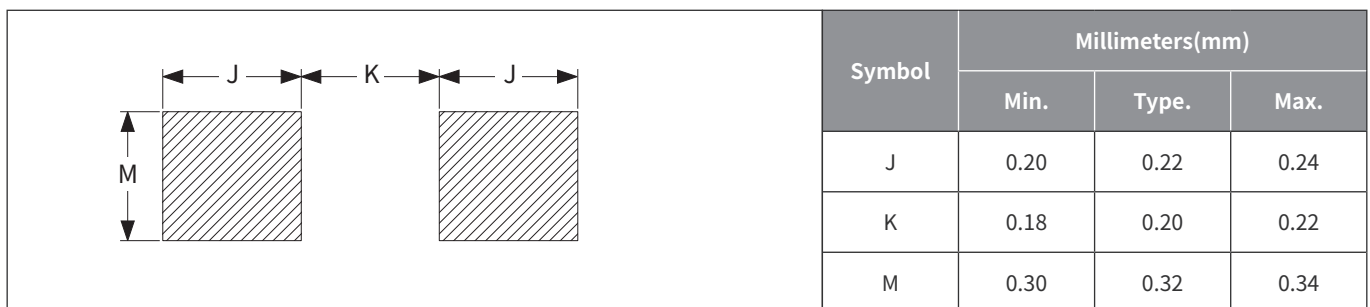
▶ Recommended Soldering Conditions



▶ Package Outline Dimensions (DFN0603)



▶ Suggested Pad Layout



Note :

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

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