



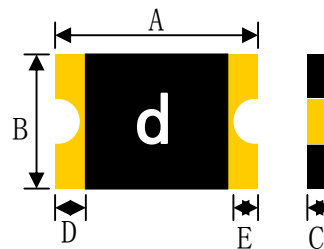
# Shenzhen Wondhope Electric Co.,Ltd.

<b>Add:</b> 2/F, Bldg 3, Minxing Industrial Zone, Minkang Rd, Minzhi Office, Longhua New Area, Shenzhen <b>Tel:</b> 86-0755-29503668-8047 <b>Fax :</b> 86-0755-29503998 <b>Email:</b> sunny@wondhope.com <b>P.C.:</b> 518131	<b>package:</b>	SMD 0805
	<b>Model:</b>	WH 020
	<b>V<sub>max</sub>:</b>	16V
	<b>I<sub>max</sub>:</b>	20A
	<b>SS:</b>	ROHS
	<b>Web:</b>	<a href="http://www.wondhope.com">www.wondhope.com</a>

## Specification Sheet

### Marking :

d: Part identification



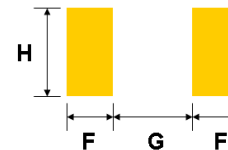
Appearance and size of production

### Solderability:

Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3

### Terminal Pad Materials:

Sn-plated nickel-copper, lead-free device.



Recommended pad layout

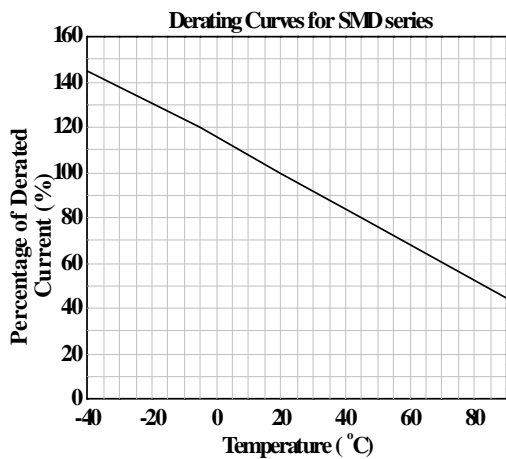
### Dimensions:

	A		B		C		D	E	F	G	H
UNIT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN			
mm	1.9	2.2	1.2	1.5	0.5	0.9	0.2	0.1	1	1.2	1.5
inch	0.075	0.087	0.047	0.059	0.020	0.040	0.008	0.004	0.04	0.050	0.060

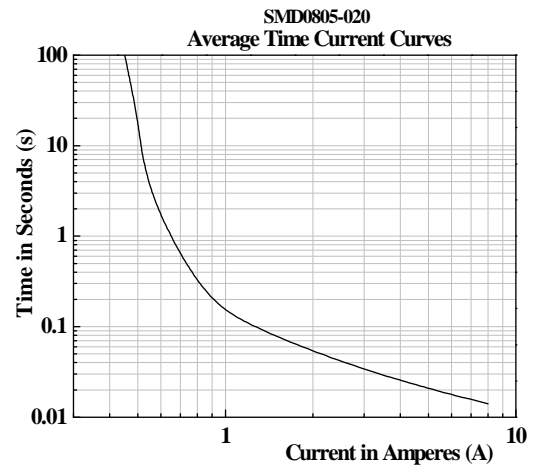
### Performance Specification:

Model	V <sub>max</sub> (V <sub>dc</sub> )	I <sub>max</sub> (A)	I <sub>hold</sub> @25°C (A)	I <sub>trip</sub> @25°C (A)	P <sub>d</sub> Tpy. (W)	Maximum Time To Trip		Resistance	
						Current (A)	Time (Sec)	R <sub>imin</sub> (Ω)	R <sub>1max</sub> (Ω)
SMD020	16	20	0.20	0.40	0.5	8.0	0.02	0.700	3.500
V <sub>max</sub> : Maximum voltage , device can withstand without damage at rated current;									
I <sub>max</sub> : Maximum fault current, device can withstand without damage at rated voltage;									
I <sub>hold</sub> : Hold Current.,device will sustain for 30min without tripping in 25°C still air;									
I <sub>trip</sub> : Minimum current at which the device will trip in 25°C still air;									
P <sub>d</sub> : Power dissipated from device when in the tripped state in 25°C still air;									
R <sub>i</sub> <sub>min</sub> :Minimum resistance of device in initial (un-soldered) state;									
R <sub>1</sub> <sub>max</sub> : Maximum resistance of device at 25°C measured one hour post reflow.									

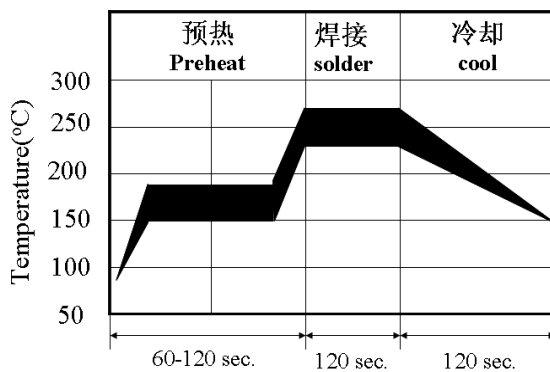
## /Average Time Current Curve



## /Average Time Current Curve at 25°C



## Solder reflow conditions



- 1、 Recommended reflow methods: IR, vapor phase oven, hot air oven.
- 2、 Devices are not designed to be wave soldered to the bottom side of the board.
- 3、 Recommended maximum paste thickness is 0.25 mm (0.010 inch).
- 4、 Devices can be cleaned using standard method and solvents.

**Note:** If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

## Storage and Handling

Storage conditions: 30°C max, 60% R.H. Devices may not meet specified performance if storage conditions are exceeded.

## Order Information

d=Part identification, **SMD0805**=Packaging, **020**=Model  
5000pcs/Reel

## WARNING:

- 1、 Use PPTC exceed by the maximum rating and improper use may result in device damage and possible electrical arcing and flame.
- 2、 PPTC are designed for protection against over current or temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- 3、 Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- 4、 Use PPTC with a large inductance in circuit will generate a circuit voltage above the rated voltage of the PPTC.
- 5、 Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
- 6、 If any quality problems caused by improper use mentioned above, our company is not responsible.