



深圳市万瑞和电子有限公司  
SHENZHEN WONDHOPE ELECTRIC.CO.,LTD

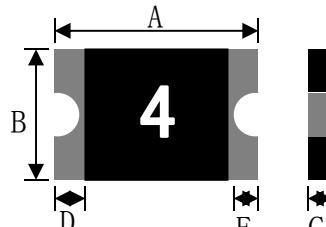
地址 (Add) : 深圳市龙华区观澜街道观光路美泰科技园1栋 1nd Bldg,Meitai Industrial Zone,Guangguang Road, Guanlan,Longhua,Shenzhen,China	封装(package) : SMD 0805
电话 (Tel) : 86-0755-29503668 29503690 29503691	型号(Model) : 050
传真 (Fax) : 86-0755-29503998 邮编(P.C.): 518131	最大电压(V <sub>max</sub> ): 12V
邮箱>Email): sales@whptc.com 网址(http://):www.whptc.com	最大电流(I <sub>max</sub> ): 100A

## 产品规格书

### Specification Sheet

#### 产品标识/Marking :

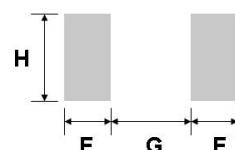
##### 4: 产品型号标识/Part identification



产品外形尺寸  
/Appearance  
and size of  
production

#### 焊点可焊性/Solderability:

符合EIA规定RS186-9E 和ANSI/J-STD-002  
第3类标准/Meets EIA specification  
RS186-9E and ANSI/J-STD-002 Category 3



推荐焊盘设计  
/Recommended  
pad layout

#### 焊点材料/Terminal Pad Materials:

无铅镀锡的镀镍铜箔/Sn-plated nickel-copper, lead-free device.

#### 产品尺寸/ Dimensions:

UNIT	A		B		C		D	E	F	G	H
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN			
mm	2	2.3	1.2	1.5	0.5	0.9	0.2	0.1	1	1.2	1.5
inch	0.075	0.091	0.047	0.059	0.020	0.040	0.008	0.004	0.04	0.050	0.060

#### 电气特性/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>min</sub> (Ω)	R <sub>1max</sub> (Ω)
SMD050	12	100	0.5	1.00	0.6	8.0	0.1	018	1.200

V<sub>max</sub>: 产品在规定电流下工作不被破坏的最大电压;

/Maximum voltage , device can withstand without damage at rated current;

I<sub>max</sub>: 产品在规定电压下工作不被破坏的最大电流;

/ Maximum fault current, device can withstand without damage at rated voltage;

I<sub>hold</sub>: 产品在25°C静止空气中30分钟不动作的最大工作电流;

/ Hold Current.,device will sustain for 30min without tripping in 25°C still air;

I<sub>trip</sub>: 产品在25°C静止空气中动作的最小电流;

/ Minimum current at which the device will trip in 25°C still air;

Pd: 产品在25°C静止空气中保护状态中消耗的功率;

/ Power dissipated from device when in the tripped state in 25°C still air;

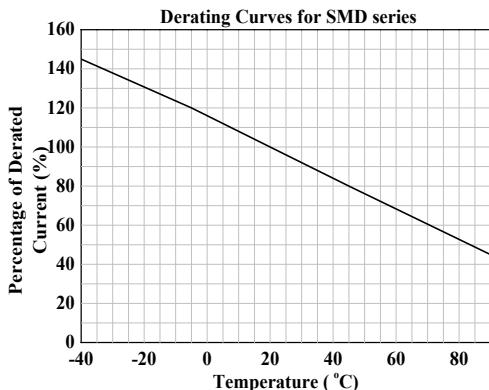
R<sub>min</sub>: 满足功能要求的最小成品电阻值;

/Minimum resistance of device in initial (un-soldered) state;

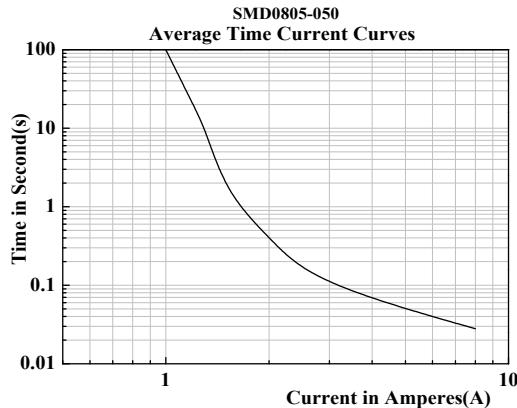
R<sub>1max</sub>: 焊接完1小时, 产品在25°C静止空气中的最大电阻值。

/ Maximum resistance of device at 25°C measured one hour post reflow.

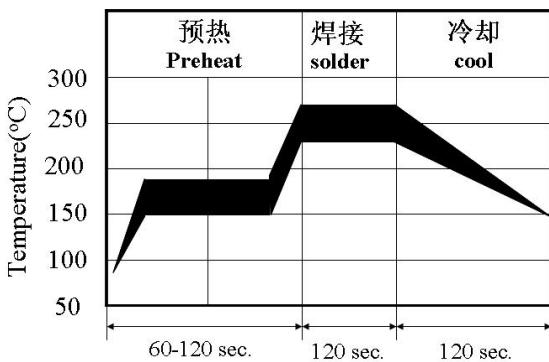
## 电流折减与环境温度曲线图 /Average Time Current Curve



## 25°C时动作时间曲线图 /Average Time Current Curve at 25°C



## 回流焊接条件/Solder reflow conditions



注意：如果回流焊温度超过图表建议最高温度（260°C），元件可能损坏而达不到规范要求。

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

## 储存与放置/Storage and Handling

储存条件：低于30 °C，相对湿度小于60%。如果超出储存条件，元件可能达不到规范要求。/Storage conditions: 30°C max, 60% R.H. Devices may not meet specified performance if storage conditions are exceeded.

## 订购须知/Order Information

4=产品标识 /Part identification, SMD0805=封装尺寸 / Packaging, 050=产品型号 /Model

包装数量4500个/盘4500pcs/Reel

## 注意事项/ WARNING:

- 超出额定范围或不正确地使用PPTC元件都可能导致产品的损坏，并可能导致电弧和火焰；/Use PPTC exceed by the maximum rating and improper use may result in device damage and possible electrical arcing and flame.
- PPTC元件一般只用于偶然的过流或超温故障时的保护，切勿用于故障频繁发生或预期会发生长时间故障的场合；/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.
- 如果不按照建议安装、测试和使用产品，元件性能可能会受到不利影响；/Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- 在电感强度大的电路中使用时，可能会产生超过PPTC元件的额定电压的回路电压；/Use PPTC with a large inductance in circuit will generate a circuit voltage above the rated voltage of the PPTC.
- PPTC元件应用时不能长期处于压力下，使其缺乏膨胀空间而影响其性能，如处于高压或安装在受限的狭小空间里。/Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
- 由于上述原因造成质量问题，我司概不负责。/If any quality problems caused by improper use mentioned above, our company is not responsible.