Polymer PTC Devices

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marking

LP-SM260C

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Surface Mount Thermistor E-mail: market@way-on.com Http://www.way-on.com

#### Features

- Small size 2920, Normal working temperature with -40°C ~85°C
- Lead-free and compliant with the European Union RoHS Directive (EU)2015/863
- Fast tripping resettable circuit protection
- Surface mount packaging for automated assembly
- Agency Recognition: TUV

## Product Dimension (mm)

Part Number	Α	В	С	D	E	SW
	Тур.	Тур.	Тур.	Тур.	Тур.	260
LP-SM260C	$7.70 {\pm} 0.28$	$5.24 {\pm} 0.20$	$1.00 {\pm} 0.50$	$1.30 {\pm} 0.50$	$0.60\!\pm\!0.30$	200

## **Electrical Characteristics**

Part Number	Ін	Ιτ	V <sub>max</sub>	I <sub>max</sub>	T <sub>trip</sub>		Pd <sub>typ</sub>	R <sub>min</sub>	$R_{1max}$
	(A)	(A)	(V)	(A)	Current(A)	Time(S)	(W)	<b>(</b> Ω)	<b>(</b> Ω)
LP-SM260C	2.60	5.20	6	40	8.0	20.00	1.9	0.015	0.075

 $I_{H}$ =Hold current: maximum current at which the device will not trip at 25°C still air.

 $I_{T}\text{=}\mathsf{Trip}$  current: minimum current at which the device will always trip at 25°C still air.

 $V_{max}$ =Maximum voltage device can withstand without damage at rated current.

 $I_{max}$ =Maximum fault current device can withstand without damage at rated voltage.

T<sub>trip</sub>=Maximum time to trip(s) at assigned current.

Pd<sub>typ</sub>=Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

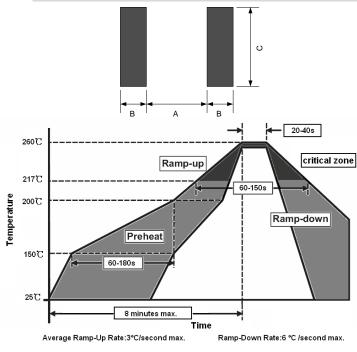
R<sub>min</sub>=Minimum device resistance at 25°C prior to tripping.

R<sub>1max</sub>=Maximum device resistance measured in the nontripped state 1 hour post reflow.

# **Thermal Derating**

LP-SM260C	Maximum ambient operating temperature(°C)									
	-40	-20	0	20	25	40	50	60	70	85
Hold Current (A)	4.15	3.65	3.18	2.64	2.60	2.24	1.91	1.77	1.46	1.01
Trip Current (A)	8.30	7.30	6.36	5.28	5.20	4.48	3.82	3.54	2.92	2.02

## Solder Reflow Recommendation



# Solder Pad Layout

	Α	В	С	
Part Number	(mm)	(mm)	(mm)	
LP-SM260C	4.60	2.00	5.30	

\* Recommended reflow methods: IR, vapor phase, hot air oven.

#### Notes:

- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
- Devices are not designed to be wave soldered to the bottom side of the board.

## Package Information

Tape & Reel: 4000pcs per reel.

Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid. Caution: Operation beyond the rated voltage or current may

Caution: Operation beyond the rated voltage or current may result in rupture electrical arcing or flame.

	NT: M20687					
REV LETT PAGE NO:	-	Polymer	WAYON			
	2012	-	Wayon Electronics Co., Ltd.			
PART NUMBER:		PTC Devices	No.1001, Shiwan 7th Road, Pudong, Shanghai 201202, P.R.China   Tel: 86-21-50968308 Fax: 86-21-50968310			
LP-SN	M260C	Surface Mount Thermistor				
		CI	AD PTC 使用注意事项			
			tions for SMD PTC Use			
1.	法左扣枚土却		用,超出 PTC 最大电压或最大电流规格值的操作,可能会导致 PTC 出现电弧,			
1.	阻值升高,甚		f, 地山「IO取八屯広攻取八屯加风衔值的採FF, 可能云守攻「IO山戍屯加,			
	Operation be	yond the maximum voltage or o	current may result in device damage, PTC arcing, resistance increasing,			
2.	even burning		是 PTC 经过一次回流焊接得出的常规性能,PTC 能够在不同温度对应的电流			
Ζ.			C能够适用的长期充电或放电电流的条件。			
	The Hold curi	rent specified at different tempe	eratures in the datasheet is the conventional performance of after one reflow			
		can hold 1 hour at the current charging or discharging currer	corresponding to different temperatures. But this current is not the condition			
3.			F在维安指定测试板经过一次回流焊之后的测试。如果客户有二次回流焊或者			
-	注塑点胶等其	他热工序,会对上述参数有一定	定程度的衰减。所以需要验证其适用性。			
			tics specified in the datasheet are based on the test tested on the specified ng. The applicability needs to be verified because above parameters may be			
			like twice soldering or injection.			
4.	PTC 为热敏元	L件,对环境温度比较敏感,建	议在 PTC 周围不要设计热源元件,尽量减少外部热源的影响。			
		al sensitive device. It is recomr Itside heat source impact.	nended that no heat source devices be designed to around in order to			
5.			式,焊接工艺为回流焊。焊接工艺可参考维安推荐的回流焊曲线。如果回流焊			
			禁止使用手工焊接 PTC,禁止对线路板其他元件或端子返工时使用热风枪。			
			and its reflow soldering. Please refer to the Wayon recommended soldering the recommended value, the PTC might be damaged. Manual PTC			
			red to use in the rework of other components on the board.			
6.	PTC 贴装或应	Z用过程中,所使用到的各类注塑	料、单组份、双组份固化胶粘剂、硅胶,需要对注塑料胶料等材料牌号以及			
	应用参数(如温度、时间等)进行验证,以确保产品及工艺的匹配性,确认不会影响 PTC 性能之后方可使用。					
			aterial mark and application parameters (Temperature, Time, and etc.) of all silica gels and etc. should be verified to ensure the consistency between the			
	products and	the processing technology. On	ly it is confirmed that would not influent PTC then can be used.			
7.			或其他清洗剂进行清洗。如必须使用,需要验证各类清洗剂、洗板水以及溶剂使用。已知对 PTC 有影响的化学药品包括但不仅限于醚类、苯类、酮类以及			
			青洗后将产品放置于敞开的环境中至少24小时,将残留的溶剂进行充分的挥			
	发。					
			ot recommended that using washer water or other cleaner to clean PTC. If it cability of various cleaner, washer water and solvents, it is also confirmed			
			e. Chemicals that are known to have an effect on PTC include, but are not			
			ganic compounds such as ethers, benzenes, ketones, and lipids. Placing			
8.			24 hours to volatilize the residual solvents. 纽、刺等方式作用 PTC 本体,以免引起 PTC 性能衰减。			
•	Please do no		t and etc. to PTC during assembling process to avoid the performance			
9.	degradation. 在产品应用由	DTC 怛按至促拍扳后 加雲	注塑或打胶,须在尽量短的时间内完成,如贴装与注塑打胶时间间隔超过1			
9.		闭保存,可避免 PTC 长时间暴				
	In the applica	tion, after the PTC soldered in	the board, please finish the injection or glue as soon as possible. IF the time			
	lag between t expose to the		n 1 month, PTC needs to reserve in the closed space so as to avoid PTC			
10.			使用,重复多次的保护会降低 PTC 的维持电流。			
			be used as switch. The hold current will reduced after repeated tripping.			
11.			科做内膜, 禁止使用 TPE 类与 PVC 类等材料做内膜。 PP material is recommended as inner membrane, TPE or PVC materials are			
	prohibited.					
12.			麦。客户如在库存中发现有包装破损的,立即将产品隔离处理;使用时如有余			
		前包装状态,做密封保存。 el of SMD PTC is 1. which is se	aled packed. If any damaged package is found by customer, please isolate			
	them. If there	is rest parts, needs repack it a	is the previous package and reserve hermetically.			
13.			的法律法规回收报废,具体原材料组成可参见 MSDS。 be treated recycled in accordance with local laws and regulations, and raw			
		positions of PPTC can be refer				

单击下面可查看定价,库存,交付和生命周期等信息

>>WAY-ON(维安)