Polymer

Wayon Electronics Co., Ltd.

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LP-SM300C

**PTC Devices** 

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

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Marking

Features

- Small size 2920
- 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)**

	А	В	С	D	Е
Part Number	Max	Мах	Мах	Min	Min
LP-SM300C	7.98	5.44	1.50	0.80	0.30

#### **Electrical Characteristics**

Dent Number	IH	Iτ	V <sub>max</sub>	I <sub>max</sub>	T <sub>trij</sub>	0	Pd <sub>typ</sub>	R <sub>min</sub>	R <sub>1max</sub>
Part Number	(A)	(A)	(V)	(A)	Current(A)	Time(S)	(W)	<b>(</b> Ω)	<b>(</b> Ω)
LP-SM300C	3.00	6.00	6	40	8.0	35.00	1.9	0.015	0.048

I<sub>H</sub>=Hold current: maximum current at which the device will not trip at 25°C still air.

I<sub>T</sub>=Trip current: minimum current at which the device will always trip at 25°C still air.

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.

 $T_{trip}$ =Maximum time to trip(s) at assigned current.

Pdtvp=Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

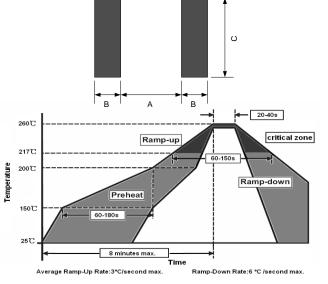
R<sub>min</sub>=Minimum device resistance at 25°C prior to tripping.

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

## Thermal Derating

	Maximum ambient operating temperatures(°C)								
Part Number	-40	-20	0	25	40	50	60	70	85
LP-SM300C	4.76	4.21	3.66	3.00	2.61	2.21	2.05	1.69	1.17
	9.52	8.42	7.32	6.00	5.22	4.42	4.10	3.38	2.34

## Solder Reflow Recommendation



# Solder Pad Layout

Deut Number	A	в	C
Part Number	(mm)	(mm)	(mm)
LP-SM300C	4.60	2.00	5.30

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

#### 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: 6000pcs 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 result in rupture electrical arcing or flame.

Specifications are subject to change without notice.

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PAGE NO	: 2 OF 2 E: 2022-11-18	Polymer	Wayon Electronics Co.,					
		PTC Devices		dong, Shanghai 201202, P.R.China				
LP-SI	M300C	Surface Mount Thermistor		Fax: 86-21-50968310 Http://www.way-on.com				
				·····································				
			ID PTC 使用注意事项					
1.	建力扣收力扣		ions for SMD PTC し	JSE 支大电流规格值的操作,可能会导致 PTC 出现电				
1.	弧,阻值升高	,甚至烧片。						
	even burning.		current may result in device	e damage, PTC arcing, resistance increasing,				
2.	规格书所规定			計出的常规性能,PTC能够在不同温度对应的电 ◎放由由流的条件。				
				the conventional performance of after one				
				ferent temperatures. But this current is not the				
0		PTC can charging or discharg		波回冻相之后的测试 加田安克去二次回冻相式				
3.		的电阻以及电气特性,均定基于 其他热工序,会对上述参数有-		次回流焊之后的测试。如果客户有二次回流焊或 哈证其话田姓				
				eet are based on the test tested on the				
	specified testi	ng board which is after one ref	low welding. The applicabi	lity needs to be verified because above				
		ay be attenuated if customer h						
4.				原元件,尽量减少外部热源的影响。 e devices be designed to around in order to				
		tside heat source impact.		e devices be designed to around in order to				
5.				妾工艺可参考维安推荐的回流焊曲线。如果回流 C,禁止对线路板其他元件或端子返工时使用热				
	风枪。							
	SMD PTC is designed for SMT technology, and its reflow soldering. Please refer to the Wayon recommended							
	soldering curve. If the soldering temperature exceeds the recommended value, the PTC might be damaged. Manual							
6.	PTC 贴装或应	用过程中,所使用到的各类注塑	1料、单组份、双组份固化的	prk of other components on the board. 泛粘剂、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。							
				n parameters (Temperature, Time, and etc.) of				
	all injection or plastic materials, like dhesives, silica gels and etc. should be verified to ensure the consistency between the products and the processing technology. Only it is confirmed that would not influent PTC then can be							
_	used.							
7.				必须使用,需要验证各类清洗剂、洗板水以及溶				
	剂的适用性,确认不会影响 PTC 性能之后方可使用。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 以及脂类等较强溶解性、破坏性的有机化合物。清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。	近れ日本モン・吸入して日子日かられて日子	为。1月10月11月1月11月11月11日11月11日	有的种感干土之子在明,有效由的梧桐边门几				
	When assemb			washer water or other cleaner to clean PTC. If				
				r, washer water and solvents, it is also				
	confirmed that they will not affect the PTC performance. Chemicals that are known to have an effect on PTC include, but are not limited to, highly solubility and destructive organic compounds such as ethers, benzenes, ketones, and							
				volatilize the residual solvents.				
8.		避免用暴力砸、挤、压、拉、打						
		smash, clamp, pull, dent, twis	t and etc. to PTC during as	sembling process to avoid the performance				
9.	degradation. 在产品应用中	. PTC 焊接至保护板后, 如需	注朔或打胶. 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				
0.		闭保存,可避免 PTC 长时间暴						
	In the applicat	tion, after the PTC soldered in	the board, please finish the	e injection or glue as soon as possible. IF the				
			e than 1 month, PTC needs	s to reserve in the closed space so as to avoid				
10		o the air too long. 〔保护元件,但并不能当做开关·	伸田、重复名次的保护会降	任 PTC 的维持由流				
10.				d current will reduced after repeated tripping.				
11.		端应用中,建议使用 PP 类材料						
			PP material is recommende	ed as inner membrane, TPE or PVC materials				
10	are prohibited 维安 SMD PT		医 家白加左底方由岩珊右/	包装破损的,立即将产品隔离处理;使用时如有				
12.		C 碰戰等级內 F 级,內密到包里 之前包装状态,做密封保存。	K。 台/ 知11/平付中及现有	已不吸现101, 工时何/ 叩腳肉处生; 使用时知有				
			aled packed. If any damag	ed package is found by customer, please				
	isolate them.	If there is rest parts, needs rep	ack it as the previous pack	age and reserve hermetically.				
13.		可随着终端的产品,按照当地的						
		duct is finally discarded, it can compositions of PPTC can be i		ordance with local laws and regulations, and				
			· · · · · · · · · · · · · · · · · · ·					

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)