Polymer

Wayon Electronics Co., Ltd.

WAYON

LP-SM260C

PTC Devices No.1001, Shiwan 7th Tel: 86-21-50968308

No.1001, Shiwan 7th Road, Pudong, Shanghai 201202, P.R.China

Fax: 86-21-50968310

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

Http://www.way-on.com

marking

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	Е	SM
	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 _{max}	I _{max}	T _{trip}		Pd _{typ}	R _{min}	R_{1max}
	(A)	(A)	(V)	(A)	Current(A)	Time(S)	(W)	(Ω)	(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_{trip} =Maximum time to trip(s) at assigned current.

Pd_{tvp}=Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

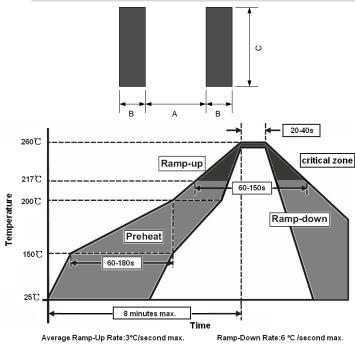
R_{min}=Minimum device resistance at 25°C prior to tripping.

R_{1max}=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

Dorf Number	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.

DOCUMEN REV LETT	IT: M20687			WAYON
PAGE NO:	-	Polymer	Wayon Electronics Co.	
REV DATE: 2022-11-17 PART NUMBER:		PTC Devices	•	Pudong, Shanghai 201202, P.R.China
			Tel: 86-21-50968308	Fax: 86-21-50968310
LP-SN	1260C	Surface Mount Thermistor	E-mail: market@way-on.com	Http://www.way-on.com
		SN	MD PTC 使用注意事	承 项
			ions for SMD PTC	
1.	请在规格书规			大电流规格值的操作,可能会导致 PTC 出现电弧,
	阻值升高,甚	// =· · ·		
	Operation bey even burning.	•	current may result in device	ce damage, PTC arcing, resistance increasing,
2.			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
		小时。该电流并不是该型号 PT		
				is the conventional performance of after one reflow t temperatures. But this current is not the condition
		charging or discharging curren		temperatures. But this current is not the condition
3.				一次回流焊之后的测试。如果客户有二次回流焊或者
		他热工序,会对上述参数有一定		验让具适用性。 heet are based on the test tested on the specified
				s to be verified because above parameters may be
4		customer has other processes,		
4.				\$源元件,尽量减少外部热源的影响。 ce devices be designed to around in order to
	reduce the ou	tside heat source impact.		·
5.				送于艺可参考维安推荐的回流焊曲线。如果回流焊 禁止对线路板其他元件或端子返工时使用热风枪。
				新正对线时候英语几件线端了这工时使用然闪电。 Please refer to the Wayon recommended soldering
				the PTC might be damaged. Manual PTC
				f other components on the board.
6.				胶粘剂、硅胶,需要对注塑料胶料等材料牌号以及确认不会影响 PTC 性能之后方可使用。
	When assemi	oling and applying PTC, the ma	aterial mark and application	on parameters (Temperature, Time, and etc.) of all
				be verified to ensure the consistency between the
7.				lld not influent PTC then can be used. 口必须使用,需要验证各类清洗剂、洗板水以及溶剂
				前的化学药品包括但不仅限于醚类、苯类、酮类以及
		解性、破坏性的有机化合物。流	青洗后将产品放置于敞开的	的环境中至少24小时,将残留的溶剂进行充分的挥
	发。 When assemt	oling and applying PTC, it is no	t recommended that usin	g washer water or other cleaner to clean PTC. If it
	is required, it	is necessary to verify the appli	cability of various cleaner	, washer water and solvents, it is also confirmed
				wn to have an effect on PTC include, but are not sethers, benzenes, ketones, and lipids. Placing
	the product in	open environment for at least	24 hours to volatilize the	residual solvents.
8.		避免用暴力砸、挤、压、拉、打		
	degradation.	smash, clamp, pull, dent, twis	t and etc. to PTC during a	assembling process to avoid the performance
9.	在产品应用中			的时间内完成,如贴装与注塑打胶时间间隔超过1
		闭保存,可避免 PTC 长时间暴		a injection of club opposing a possible. IF the time
				ne injection or glue as soon as possible. IF the time reserve in the closed space so as to avoid PTC
	expose to the	air too long.		·
10.		[保护元件,但并不能当做开关 able protector which shall not h		锋低 PTC 的维持电流。 old current will reduced after repeated tripping.
11.		端应用中,建议使用 PP 类材料		
		d in the charging terminal, the F	P material is recommend	ded as inner membrane, TPE or PVC materials are
12.	prohibited. 维安 SMD PT	C 湿敏等级为1级,为密封包装	专。客户如在库存中发现有	可包装破损的,立即将产品隔离处理;使用时如有余
	料, 需恢复之	前包装状态,做密封保存。		
				nged package is found by customer, please isolate
13.		is rest parts, needs repack it a 可随着终端的产品,按照当地的		
-	When the pro	duct is finally discarded, it can	be treated recycled in ac	cordance with local laws and regulations, and raw
	material comp	positions of PPTC can be refer	red to MSDS.	