Polymer

Wayon Electronics Co., Ltd.

WAYON

LP-USML260

PTC Devices Surface Mount Thermistor No.1001, Shiwan 7th Road, Pudong, Shanghai 201202, P.R.China

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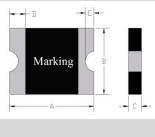
Fax: 86-21-50968310 *Http://www.way-on.com*

Features

- Small size 1210
- Low resistance
- Lead-free and compliant with the European Union RoHS Directive (EU)2015/863
- Fast time-to-trip
- Agency Recognition: UL、TUV

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Product Dimension (mm)

Part Number	Α	В	С	D	E	Part	
Fart Number	Max.	Max.	Max.	Min.	Min.	Marking	D6
LP-USML260	3.43	2.80	0.70	0.25	0.10	D6	

Electrical Characteristics

Dent Normhen	Ін	Iτ	V _{max}	Imax	T _{trip}	0	Pd max	R _{min}	R _{1max}
Part Number	(A)	(A)	(V)	(A)	Current(A)	Time(S)	(W)	(Ω)	(Ω)
LP-USML260	2.60	8.10	6	50	8.0	5	1.2	0.003	0.020

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

 I_T =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 current.

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

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

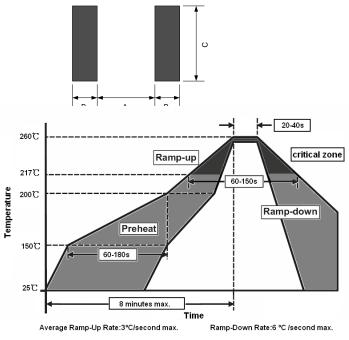
R_{min}=Minimum device resistance at 25°C prior to tripping.

R1max=Maximum device resistance measured in the nontripped state 1 hour post reflow.

Thermal Derating

LP-USML260			Ма	kimum am	bient oper	ating tem	perature(°	C)		
	-40	-20	0	20	25	40	50	60	70	80
Hold Current (A)	3.85	3.47	3.02	2.67	2.60	2.29	2.01	1.84	1.59	1.25
Trip Current (A)	11.00	10.20	8.90	8.30	8.10	6.70	6.00	5.50	4.60	3.30

Solder Reflow Recommendation



Solder Pad Layout					
Dent Number	Α	В	С		
Part Number	(mm)	(mm)	(mm)		
LP-USML260	2.00	1.00	2.50		

* 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 result in rupture electrical arcing or flame.

Specifications are subject to change without notice.

DOCUME REV LET	NT: M20164		WAYON
PAGE NC	-	Polymer	Wayon Electronics Co., Ltd.
REV DAT PART NU	E: 2022-11-21	PTC Devices	No.1001, Shiwan 7th Road, Pudong, Shanghai 201202, P.R.China
	SML260		Tel: 86-21-50968308 Fax: 86-21-50968310
	SIVILZOU	Surface Mount Thermistor	E-mail: <u>market@way-on.com</u> Http://www.way-on.com
		SME	D PTC 使用注意事项
			ons for SMD PTC Use
1.	阻值升高, 甚至	烧片。	,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, irrent may result in device damage and possible electrical arcing or flame.
2.	规格书所规定的 条件下保持1小	各温度下的 Hold current 均是 时。该电流并不是该型号 PTC	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 能够适用的长期充电或放电电流的条件。
	reflow welding. I of long-term cha	PTC can hold 1 hour under cu riging or discharging current fo	ne SPEC is the conventional performance of PTC obtained by one time urrent conditions at a given temperature. This current is not the condition or this type of PTC.
3.	规格书所规定的 注塑点胶等其他	电阻以及电气特性,均是基于在 热工序,会对上述参数有一定和	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 程度的衰减。所以需要验证其适用性。
	generated proce at certain degree	ess like injection or dispensing e. Therefore the verification te	ne time of reflow soldering processing the PTC. If there is any further heat g at the customer's premise, the aforementioned parameters will decrease est to be conducted is necessary.
4.		mal sensitive device. It is reco	在 PTC 周围不要设计热源元件,尽量减少外部热源的影响。 ommended not to design any heat source devices around it to reduce the
5.	PTC 贴片产品是 温度超过推荐的	为 SMT 工艺设计的封装形式, 值,PTC 将有可能受到损伤。	,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。 nich applies reflow soldering. Please refer to the Wayon recommended
	curve for referer	nce. If the reflow soldering tem	nperature exceeds the recommended value, the PTĆ might be damaged. not allowed to use during the circuit board components or terminals
6.	应用参数(如温 When mounting agents or solver	度、时间等)进行验证,以确f or using PTC, all injection mo its must be tested in terms of a	4、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。 blding materials, curing adhesives, UV glue, silica gel and cleaning application parameters e.g. temperature, time, and etc to ensure the
7.	PTC 贴装或使用 剂的适用性,确	认不会影响 PTC 性能之后方可	cessing before use. 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 J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 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
	When mounting cleaning is requ and confirm that limited to ethers place the produc	ired, it is necessary to verify th they will not affect the PTC pe , benzene homolog, ketones, l ct in open environment for at le	mended to use circuit board washer water or other cleaning agent. If he applicability of various cleaning agents, washboard water and solvents, performance. The known chemicals that impacts PTC include but not lipids and derivates that is of strong solubleness and ruinous. Please east 24 hours to volatilize solvents residuals.
8.		mash, clamp, pull, dent or twis	、刺等方式作用 PTC 本体,以免引起 PTC 性能衰减。 st by tool during assembling process otherwise it might be a cause of the
9.	在产品应用中, 个月,则需密闭 When PTC is w	PTC 焊接至保护板后,如需注 保存,可避免 PTC 长时间暴露 elded to the PCM in product ap	: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 图于空气环境中。 pplication, if injection or gluing is needed, it should be completed in as een mounting and injection or gluing surpasses 1 month,, please keep in
10.	airtight environn PTC 为自恢复保	nent to avoid long air exposure 护元件,但并不能当做开关使 e protection device which shal	
11.	PTC 在充电线端	应用中,建议使用 PP 类材料(inal application, PP type mate	做内膜,禁止使用 TPE 类与 PVC 类等材料做内膜。 erial is recommended to use as inner membrane and TPE and PVC type
12.	PTC 在加工过程 点的接触时间不	!中,如有烙铁焊接工艺,建议炸 超过 3sec 。	焊接位置距离 PTC 1.5mm 以上,焊接工具温度低于 350°C,焊接铁头与焊
10	ould be more the me between sol	an 1.5mm away from PTC, the dering iron and solder joint sho	soldering iron welding process, it is suggested that the welding position sh e welding tool temperature should be lower than 350°C, and the contact ti ould not exceed 3sec. 包装。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
13.	有余料, 需恢复 Wayon low resis packaging in sto	之前包装状态,做密封保存。 stance SMD PTC humidity sen	包装。各户如11年行于发现有包装破预的,立即行户邮酬因处理;使用时如 nsitivity grade 2, for sealed packaging. If customers find damaged oduct immediately; if there is surplus material, they need to restore the
	产品报废时,可 When the produ material compos	随着终端的产品,按照当地的剂 ct is finally discarded, it can be sitions of PPTC can be referred	
15.			$且和 MOS_\circ$ recision resistance and MOS as much as possible when designing the

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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)