Polymer

Surface Mount Thermistor

Wayon Electronics Co., Ltd.

ΑΥ

LP-TSML260

Features

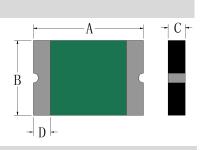
PTC Devices

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Http://www.way-on.com





Small size 0603

- 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: UL、TUV

Product Dimension (mm)

Dent Normhein	Α	В	С	D
Part Number	Max.	Max.	Max.	Min.
LP-TSML260	1.90	1.10	1.10	0.15

Electrical Characteristics

Dent Nemelan	Ін	Iτ	V _{max}	Imax	T _{trip}		Pd typ	R _{min}	R _{1max}
Part Number	(A)	(A)	(V)	(A)	Current(A)	Time(S)	(W)	(Ω)	(Ω)
LP-TSML260	2.60	5.20	6.0	50.0	8.0	5	0.5	0.008	0.055

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

IT=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.

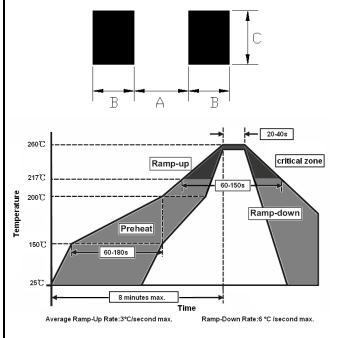
R_{min}=Minimum device resistance at 25°C prior to tripping.

R_{1max}=Maximum device resistance measured in the nontripped state 1 hour post reflow.

Thermal Derating

LP-TSML260	Maximum ambient operating temperature(°C)									
	-40	-20	0	20	25	40	50	60	70	85
Hold Current (A)	3.41	2.96	2.75	2.66	2.60	2.11	1.90	1.77	1.45	1.05
Trip Current (A)	6.82	5.92	5.50	5.32	5.20	4.22	3.80	3.40	2.90	2.10

Solder Reflow Recommendation



Solder Pad Layout Δ R С

Dort Number		D	<u> </u>
Part Number	(mm)	(mm)	(mm)
LP-TSML260	0.80	0.60	0.80

* 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:5000pcs 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.

REV LET	ENT: M20350		
	0: 2 OF 2	Polymer	Wayon Electronics Co., Ltd.
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PART NI	JMBER:		Tel: 86-21-50968309 Fax: 86-21-50968310
LP-T	SML260	Surface Mount Thermistor	E-mail: <u>market@way-on.com</u> Http://www.way-on.com
		SM	ND PTC 使用注意事项
			ions for SMD PTC Use
1.	阻值升高,甚至	E的最大电压和最大电流下使用 E烧片。	引,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,
2.	规格书所规定的 条件下保持11	D各温度下的 Hold current 均是 、时。该电流并不是该型号 PT(current may result in device damage and possible electrical arcing or flame. 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 C 能够适用的长期充电或放电电流的条件。
	reflow welding. of long-term ch	PTC can hold 1 hour under co arging or discharging current f	
3.	注塑点胶等其他	1热工序,会对上述参数有一定	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。 one time of reflow soldering processing the PTC. If there is any further heat
_	generated proc at certain degre	ess like injection or dispensing e. Therefore the verification to	g at the customer's premise, the aforementioned parameters will decrease est to be conducted is necessary.
4.		rmal sensitive device. It is rec	义在 PTC 周围不要设计热源元件,尽量减少外部热源的影响。 commended not to design any heat source devices around it to reduce the
5.	温度超过推荐的 SMD PTC is de curve for refere	D值,PTC 将有可能受到损伤。 esigned for SMT processing w nce. If the reflow soldering ter	六,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。 /hich applies reflow soldering. Please refer to the Wayon recommended mperature exceeds the recommended value, the PTC might be damaged. not allowed to use during the circuit board components or terminals
6.	PTC 贴装或应用 应用参数(如温 When mounting agents or solve	L度、时间等)进行验证,以确 g or using PTC, all injection ments must be tested in terms of	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 角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。 olding materials, curing adhesives, UV glue, silica gel and cleaning f application parameters e.g. temperature, time, and etc to ensure the
7.	PTC 贴装或使用的适用性,确认	、不会影响 PTC 性能之后方可住	ocessing before use. 成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 情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
8.	When mounting cleaning is requ and confirm tha limited to ethers place the produ 装配过程中,避 Please do not s	Lired, it is necessary to verify t at they will not affect the PTC p s, benzene homolog, ketones, uct in open environment for at 连免用暴力砸、挤、压、拉、扭 smash, clamp, pull, dent or twi	mended to use circuit board washer water or other cleaning agent. If the 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 least 24 hours to volatilize solvents residuals. 组、刺等方式作用 PTC 本体,以免引起 PTC 性能衰减。 ist by tool during assembling process otherwise it might be a cause of the
9.			主塑或打胶,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 露于空气环谙中。
10	When PTC is w short a time as airtight environ	velded to the PCM in product a possible. If the time slot betwee ment to avoid long air exposure	application, if injection or gluing is needed, it should be completed in as een mounting and injection or gluing surpasses 1 month,, please keep in
	PTC is resettab PTC hold curre	ble protection device which sha nt.	all not be taken for use as switch. Multiple times tripping shall lower the
11.		ninal application, PP type mat	斗做内膜, 禁止使用 TPE 类与 PVC 类等材料做内膜。 terial is recommended to use as inner membrane and TPE and PVC type
12.	PTC 在加工过和 点的接触时间不	呈中,如有烙铁焊接工艺,建议 、超过 3sec 。	义焊接位置距离 PTC 1.5mm 以上,焊接工具温度低于 350℃,焊接铁头与焊
13.	ould be more th me between so 维安低阻 SMD 有余料,需恢复 Wayon low resi packaging in st	nan 1.5mm away from PTC, th Idering iron and solder joint sh PTC 湿敏等级为 2 级,为密封 巨之前包装状态,做密封保存。 stance SMD PTC humidity se ock, they should isolate the pr	soldering iron welding process, it is suggested that the welding position sh he welding tool temperature should be lower than 350°C, and the contact ti hould not exceed 3sec. route。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 ensitivity grade 2, for sealed packaging. If customers find damaged roduct immediately; if there is surplus material, they need to restore the
14.	产品报废时,可 When the prode	uct is finally discarded, it can b	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
15	material compo 建议左设计位址	sitions of PPTC can be referre	eu tu mos. 阴和 mos

建议在设计保护板时尽量使 PTC 远离精密电阻和 MOS。 It is recommended to keep PTC away from precision resistance and MOS as much as possible when designing the 15. protection plate.

DOCUMENT: M20350

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)