Polymer

Wayon Electronics Co., Ltd.

WAYON

LP-NSM110/8

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

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

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marking

Features

- Small size 1206
- 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)

Part Number	Α	В	С	D	E	Part
	Max.	Max.	Max.	Min.	Min.	– Marking
LP-NSM110/8	3.50	1.80	1.30	0.25	0.10	0

Electrical Characteristics

Dort Number	Ι _Η	lτ	V_{max}	I _{max}	T _{trip}		Pd _{typ}	R_{min}	R _{1max}
Part Number	(A)	(A)	(V)	(A)	Current(A)	Time(S)	(W)	(Ω)	(Ω)
LP-NSM110/8	1.10	2.20	8	40	8.0	0.30	0.6	0.055	0.210

 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.

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

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

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

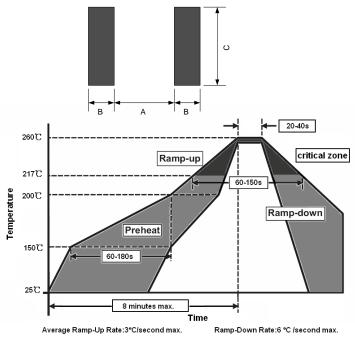
R_{min}=Minimum device resistance at 25°C prior to tripping.

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

Thermal Derating

LP-NSM110/8	Maximum ambient operating temperature(°C)									
	-40	-20	0	20	25	40	50	60	70	85
Hold Current (A)	1.61	1.44	1.27	1.12	1.10	0.94	0.85	0.77	0.63	0.48
Trip Current (A)	3.22	2.88	2.54	2.24	2.20	1.88	1.70	1.54	1.26	0.96

Solder Reflow Recommendation



Solder Pad Layout						
Dert Number	Α	В	С			
Part Number -	(mm)	(mm)	(mm)			
LP-NSM110/8	1.80	1.00	1.80			

* 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: 3500pcs 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.

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	2012	Polymer	Wayon Electronics Co., Ltd.
PART NUM		PTC Devices	No.1001, Shiwan 7th Road, Pudong, Shanghai 201202, P.R.China Tel: 86-21-50968308 Fax: 86-21-50968310
LP-NS	M110/8	Surface Mount Thermistor	
			AD PTC 使用注意事项
1.	法左切权书却		tions for SMD PTC Use 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	至烧片。	
	even burning.		current may result in device 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 ℃ 能够适用的长期充电或放电电流的条件。
	The Hold curr	rent specified at different tempe	eratures in the datasheet is the conventional performance of after one
			current corresponding to different temperatures. But this current is not the
3.	规格书所规定		于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
			定程度的衰减。所以需要验证其适用性。
	testing board	which is after one reflow welding	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
4.			æs, like twice soldering or injection. 议在 PTC 周围不要设计热源元件,尽量减少外部热源的影响。
	PTC is therma	al sensitive device. It is recomm	nended that no heat source devices be designed to around in order to
_		Itside heat source impact.	
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.			1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。
			aterial mark and application parameters (Temperature, Time, and etc.) of all
			silica gels and etc. should be verified to ensure the consistency between the ily it is confirmed that would not influent PTC then can be used.
7.	PTC 贴装或使	 	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。
0.			t and etc. to PTC during assembling process to avoid the performance
0	degradation.		
9.		闭保存,可避免 PTC 长时间暴	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 露于空气环境中。
	In the applica	tion, after the PTC soldered in	the board, please finish the injection or glue as soon as possible. IF the
		een the injection and glue more to the air too long.	e than 1 month, PTC needs to reserve in the closed space so as to avoid
10.			使用,重复多次的保护会降低 PTC 的维持电流。
	PTC is resetta	able protector, which shall not t	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.	维安 SMD PT	C湿敏等级为1级,为密封包装	表。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。	aled peaked. If any demograd peakers is found by systemer, places isolets
			aled packed. If any damaged package is found by customer, please isolate is the previous package and reserve hermetically.
13.	产品报废时,	可随着终端的产品, 按照当地的	的法律法规回收报废,具体原材料组成可参见 MSDS。
		duct is finally discarded, it can positions of PPTC can be refer	be treated recycled in accordance with local laws and regulations, and raw red to MSDS
	material colli		