

**Polymer  
 PTC Devices**

Surface mount fuses

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**LP-NSM050**

**Features**

- Very small size of 1206
- Fast tripping resettable circuit protection
- Surface mount packaging for automated assembly
- Agency recognition: UL, CSA, TUV



**Product Dimensions (mm)**

Part number	A	B	C	D	E
	Max	Max	Max	Max	Min.
LP-NSM050	3.50	1.80	0.85	0.60	0.20

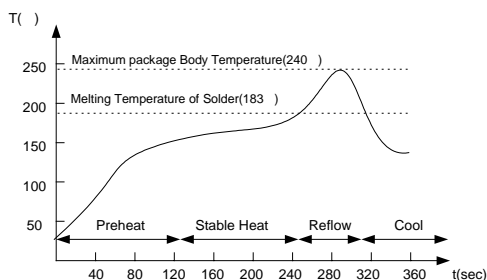
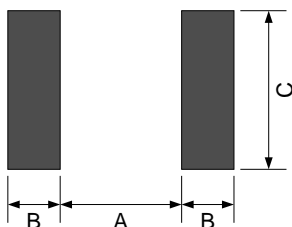


**Electrical Characteristics**

Part number	I <sub>H</sub> (A)	I <sub>T</sub> (A)	V <sub>max</sub> (V)	I <sub>max</sub> (A)	T <sub>trip</sub> Current(A) Time(S)	Pd <sub>typ</sub> (W)	R <sub>min</sub> ( )	R <sub>1max</sub> ( )
LP-NSM050	0.50	1.00	6	40	8.0 0.10	0.60	0.15	0.70

I<sub>H</sub>=Hold current: maximum current at which the device will not trip at 25 still air.  
 I<sub>T</sub>=Trip current: minimum current at which the device will always trip at 25 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<sub>trip</sub>=Maximum time to trip(s) at assigned current.  
 Pd<sub>typ</sub>=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 prior to tripping.  
 R<sub>1max</sub>=Maximum device resistance measured in the nontripped state 1 hour post reflow.

**Solder Reflow Recommendations**



**Solder Pad Layouts**

Part number	A (mm)	B (mm)	C (mm)
LP-NSM035	1.80	1.00	1.80

\* Recommended reflow methods: IR, Vapor phase oven, hot air oven, wave solder.  
 \* Devices can be cleaned using standard industry methods and solvents.

**Notes:**

If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

**Package Information**

Tape & Reel: 4000pcs per reel.