

## Low Rho 0805L300SL6AR

Surface Mount PPTC Devices

### Features

- Size 0.08\*0.05 inch /2.0\*1.2 mm
- Surface mount resettable fuse
- Fast time-to-trip
- Ultra low internal resistance
- RoHS compliant, lead-free and halogen-free
- Compatible with high temperature solders

### Electrical Characteristics (25°C)/电性参数

Part Number	Marking	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	P <sub>d</sub> typ. (W)	Time to Trip (Max.)		Resistance	
							Current (A)	Time (Sec)	R min (Ω)	R 1max (Ω)
0805L300SL6AR		3.00	6.00	6.0	50	1.0	12.0	5.0	0.003	0.030

I<sub>hold</sub> = Hold current: maximum current device will pass without tripping in 25°C still air. 保持电流=在 25°C 静止空气环境中,元件不动作的最大电流。

I<sub>trip</sub> = Trip current: minimum current at which the device will trip in 25°C still air. 动作电流=在 25°C 静止空气环境中,元件的最小动作电流。

V<sub>max</sub> = Maximum voltage device can withstand without damage at rated current (I<sub>max</sub>). 最大电压=元件在额定电流下能承受的最大电压。

I<sub>max</sub> = Maximum fault current device can withstand without damage at rated voltage (V<sub>max</sub>). 最大电流=元件在额定电压下能承受的最大电流。

P<sub>d</sub> typ. = Typical power dissipated from device when in the tripped state at 25°C still air. 动作功率=在 25°C 静止空气环境中,元件动作状态下的消耗功率。

T<sub>trip</sub> = Maximum time to trip(s) at assigned current reflow soldering of 260°C for 20 sec. 动作时间=5 倍保持电流下的最大动作时间。

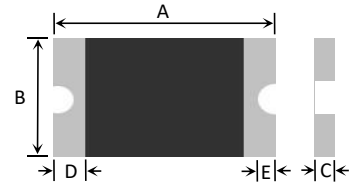
R<sub>min</sub> = Minimum resistance of device in initial (un-soldered) state. 初始最小电阻=元件焊接前的初始最小阻值。

R<sub>1max</sub> = Maximum resistance of device at 25°C measured one hour after tripping or reflow soldering of 260°C for 20 sec. 焊后最大电阻=元件焊接 1 小时后的最大阻值。

**Caution:** Operation beyond the specified rating may result in damage and possible arcing and flame. 注意: 超出指定额定值的操作, 可能会导致损伤并可能产生电弧和火焰。

### Product Dimensions(mm)/产品尺寸

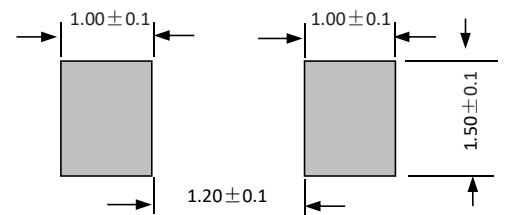
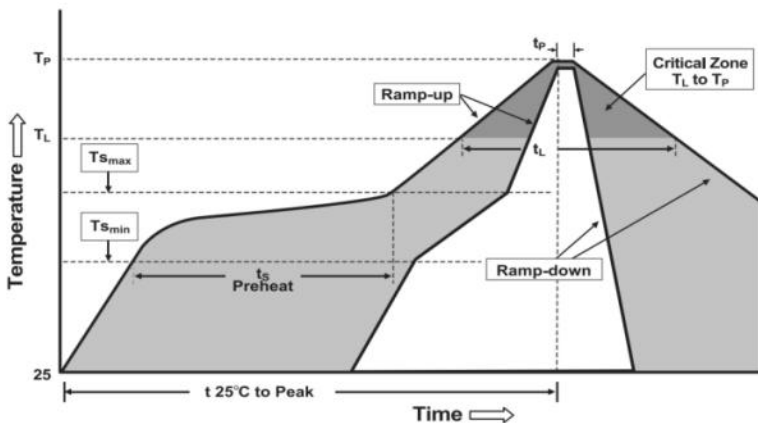
Part Number	Quantity	A		B		C		D	E
		Min	Max	Min	Max	Min	Max	Min	Min
0805L300SL6AR	4000	--	2.50	--	1.80	--	1.0	0.20	0.10



### Temperature Derating/不同环境温度下的 I<sub>hold</sub> 值

Part Number	Ambient operating temperature hold current (I <sub>hold</sub> )							
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C
0805L300SL6AR	4.5	3.9	3.3	3.00	2.7	2.1	2.0	1.8

### Solder Reflow Recommendations/回流焊建议



Recommended Pad Layout (mm)  
建议焊盘布局 (mm)

### Part Number System/产品编号

**0805 L 300 SL 6 A R**

- Tape & Reel/卷盘包装
- Quantity Code/包装数量
- Special Voltage Rating/最大电压
- Low Rho PTC Series/低内阻系列
- Holding Current Rating/保持电流
- LUTE/陆特品牌
- Dimension Code/封装尺寸

### Agency Approvals/认证



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Specifications are subject to change without notice  
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