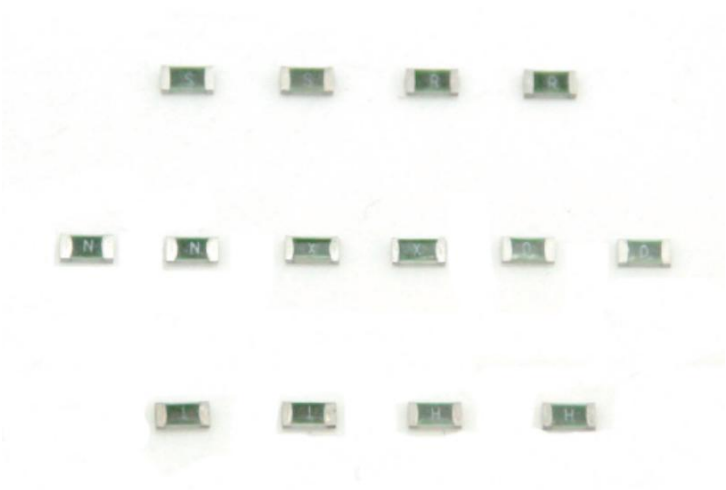
LUTETECH 陆特科技

LTC1206TS TIME-LAG FUSE

Surface Mount

Nano Fuse



Description/描述

LTC1206TS Series are the fuses set the industry standard for performance, reliability and quality. The solder - free design provides excellent on - off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

Features/特征

- High inrush current withstanding capability
- Compatible with reflow and wave solder
- Ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Agency Approvals/ 认证

Agency	Agency File Number	Ampere Range
	E549536	0.1A~20A

Electrical Characteristics/电气特性

Rated Current	1.0In	2.5In	3.0In	3.5In	10.0In
0.25A~0.75A	4 hours min.	-	-	5 seconds, Max.	0.2~20 millisecond
1A~3A	4 hours min.	1~60 seconds	0.1~3 seconds	-	0.2~20 millisecond
3.5A~5A	4 hours min.	5 seconds, Max.	0.1~3 seconds	-	0.2~10 millisecond
6A~8A	4 hours min.	-	0.1~3 seconds	5 seconds, Max.	0.2~10 millisecond
10A~15A	4 hours min.	-	-	5 seconds, Max.	0.2~10 millisecond
20A	4 hours min.	-	-	5 seconds, Max.	0.2~10 millisecond
25A~50A	4 hours min.	-	0.1~3 seconds	5 seconds, Max.	0.2~10 millisecond

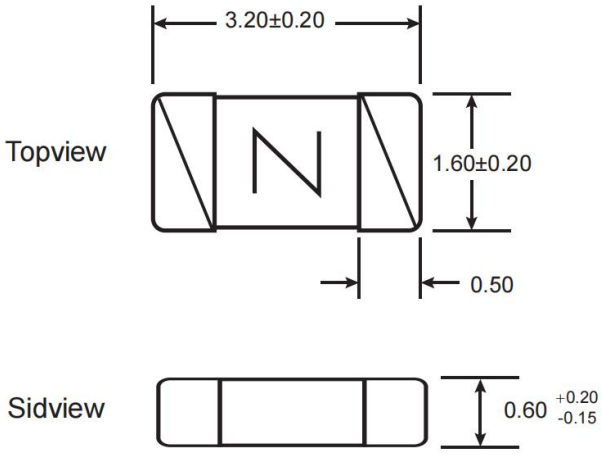
Performance Specifications/电性参数

Part Number	Marking	Rated Current（A）	Rated Voltage DC	Interrupting Rating	Typical Cold Resistance（mΩ）	Typical Voltage Drop（mV）	Typical Pre-Arcing I²t（A²sec）
LTC1206-0250TS	.25	0.25	72 63 48 32 24	50A@72Vdc 50A@63Vdc 150A@48Vdc 200A@32Vdc 300A@24Vdc	3248	1267	0.00043
LTC1206-0375TS	E	0.375			1691	647	0.00086
LTC1206-0500TS	0.5	0.50			926	583	0.0025
LTC1206-0750TS	.75	0.75			543	553	0.0061
LTC1206-1100TS	H	1.0			441	457	0.12
LTC1206-1125TS	h	1.25			283	450	0.15
LTC1206-1150TS	K	1.5			216	332	0.17
LTC1206-1200TS	N	2.0			119	285	0.46
LTC1206-1250TS	O	2.5			69	216	0.73
LTC1206-1300TS	P	3.0			43	169	1.52
LTC1206-1350TS	R	3.5			36	161	1.84
LTC1206-1400TS	S	4.0			32	152	1.91
LTC1206-1450TS	X	4.5	48 32 24	150A@48Vdc 200A@32Vdc 300A@24Vdc	27	144	2.89
LTC1206-1500TS	T	5.0			22	127	3.17
LTC1206-1600TS	F	6.0			14	123	12.3
LTC1206-1700TS	7	7.0			10	121	13.7
LTC1206-1800TS	M	8.0			7.7	99	15.4
LTC1206-2100TS	U	10			6.2	91	22.0
LTC1206-2120TS	W	12			4.3	76	12.7
LTC1206-2150TS	Y	15			3.6	69	18.2
LTC1206-2200TS	Q	20			1.6	53	51.9
LTC1206-2250TS	L	25			1.4	79	66.0
LTC1206-2300TS	Z	30			1.1	79	109
LTC1206-2400TS	XL	40	32	200A@32Vdc	0.76	86	176
LTC1206-2500TS	50	50	24	200A@24Vdc	0.68	93	256

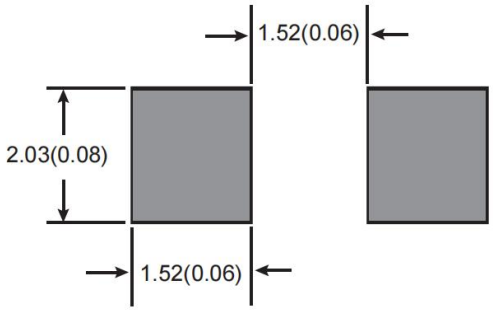
- Typical Pre-arcing I²t are measured at 10In Current.
- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

Product Dimensions (mm)/产品尺寸

Drawing not to scale (Unit:mm/inch)

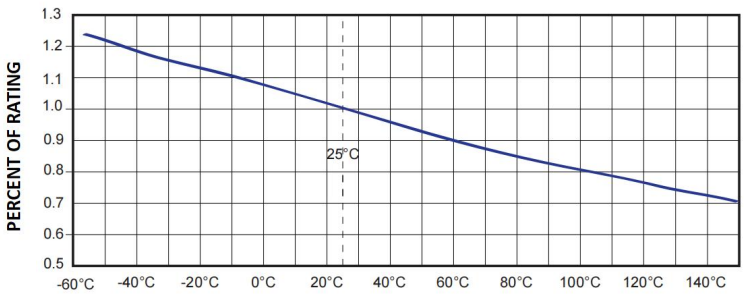


Recommended land pattern (Unit: mm/inch)



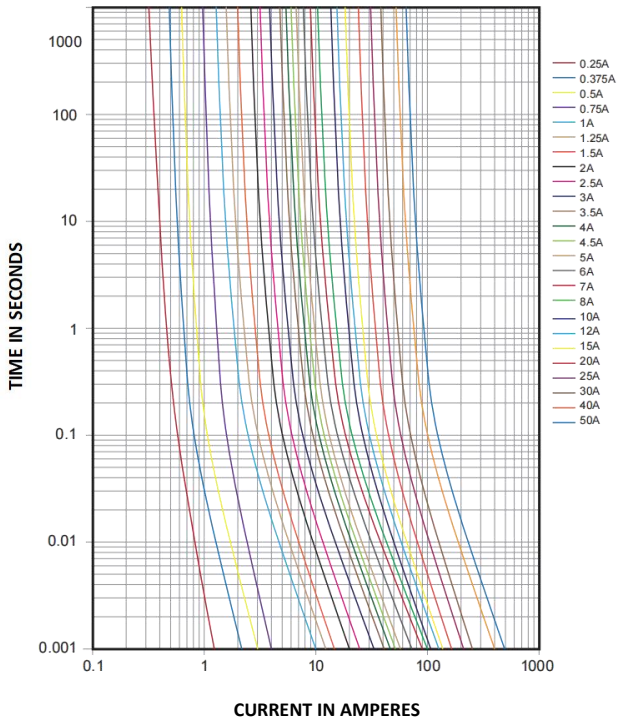
Environmental Characteristic/环境温度特性图

Temperature Derating Curve

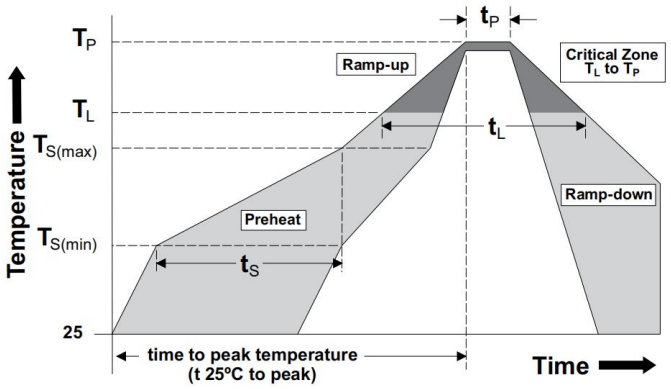


- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 150°C, with proper correction factor applied.

Average Time-Current Curve



Soldering Parameters/焊接参数

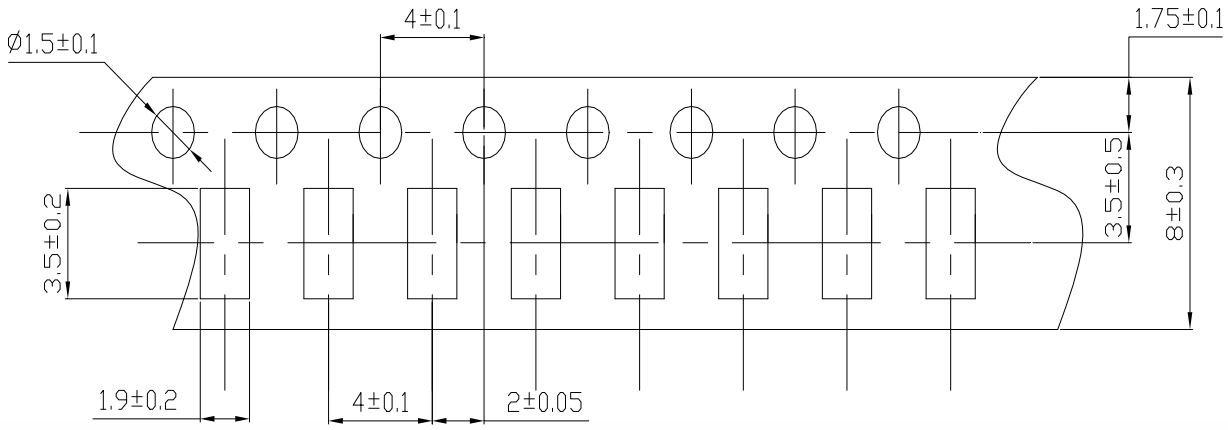


Soldering Method		Parameter
Wave Solder	Reservoir Temperature	260℃
	Time in Reservoir	10 seconds max
Infrared reflow	Temperature	260℃
	Time	30 seconds max

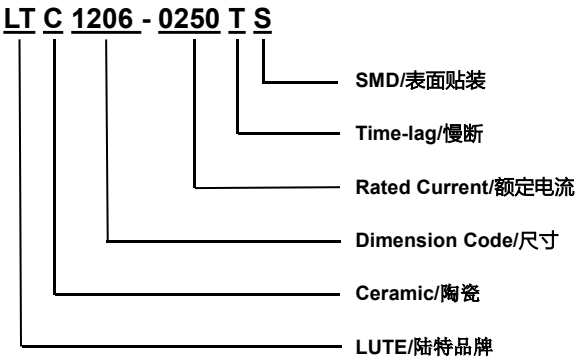
Profile Feature 特征		Pb-Free Assembly 无铅焊锡
Average Ramp-Up Rate ($T_{s(max)}$to T_p) 平均升温速度		3℃/second max
Preheat 预热	-Temperature Min($T_{s(min)}$) 最低温度	150℃
	-Temperature Max($T_{s(max)}$) 最高温度	200℃
	-Time($T_{(smin)}$ to $T_{(smax)}$) 预热时间	60~120 seconds
Reflow 回流焊	-Temperature(T_L) 温度	217℃
	-Time(t_L) 时间	60~150 seconds
Peak Temperature (T_p) 峰值温度		260℃
Ramp-Down Rate 降温		6℃/second max
Time 25℃ to Peak Temperature 从 25℃到峰值温度时间		8 minutes max
Time within 5℃ of actual peak Temperature（t_P）		30 seconds

Packing/包装

Part Number	Quantity & Packaging Code
LTC1206TS	3000 pcs/reel



Part Number System/产品编号



WARNING

- If in use beyond the requirements of the specifications, must pass through the mutual confirmation !
- If the specification is not appropriate, must through consultation between the two sides and by the company to modify !
- It could be in conformance with another file which made by our company.