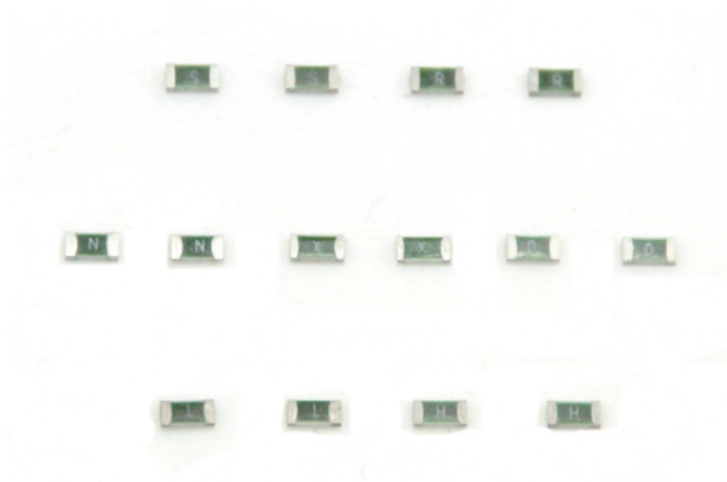


LTC1206TS TIME-LAG FUSE

Surface Mount

Nano Fuse



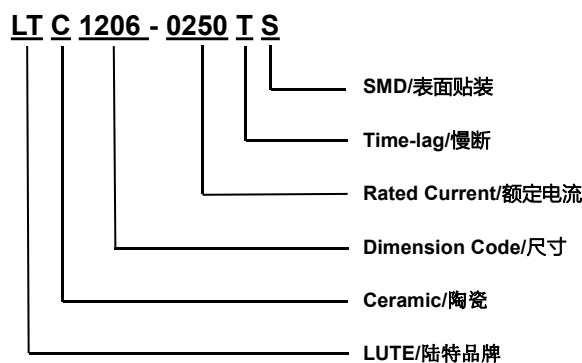
Description/描述

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

Part Number System/产品编号



Electrical Characteristics/电气特性

Rated Current	1.0In	2.0In	2.5In	3.0In	3.5In	10.0In
0.75A~3A	4 hours min.	1~60 seconds	5 seconds, Max.	0.1~3 seconds	-	0.2~20 millisecond
3.5A~5A	4 hours min.	-	5 seconds, Max.	0.1~3 seconds	-	0.2~20 millisecond
7A~30A	4 hours min.	-	-	-	5 seconds, Max.	0.2~20 millisecond

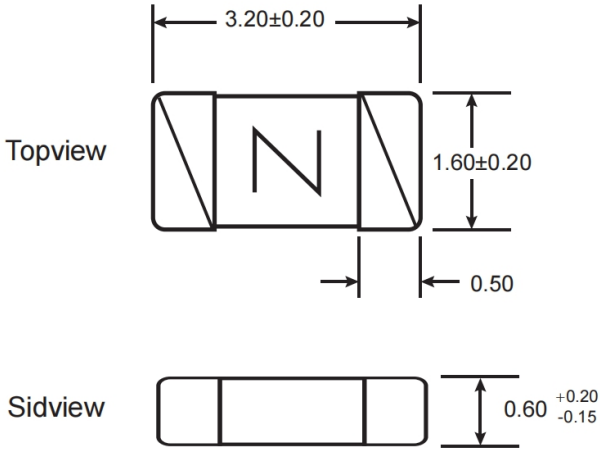
Performance Specifications/电性参数

Part Number	Marking	Rated Current (A)	Rated Voltage DC	Interrupting Rating	Typical Cold Resistance (mΩ)	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² sec)		
LTC1206-0250TS	.25	0.25	72 63 32 24	50A@72Vdc 50A@63Vdc 150A@32Vdc 300A@24Vdc	3608	1407	0.0004		
LTC1206-0375TS	E	0.375			1882	718	0.0008		
LTC1206-0500TS	B	0.50			1028	650	0.0019		
LTC1206-0750TS	.75	0.75			601	616	0.0057		
LTC1206-1100TS	H	1.0			490	510	0.10		
LTC1206-1150TS	K	1.5			240	367	0.15		
LTC1206-1200TS	N	2.0			132	316	0.41		
LTC1206-1250TS	O	2.5			77	240	0.65		
LTC1206-1300TS	P	3.0			48	187	1.39		
LTC1206-1350TS	R	3.5			40	180	1.68		
LTC1206-1400TS	S	4.0			35	173	1.73		
LTC1206-1450TS	X	4.5			32 24	150A@32Vdc 300A@24Vdc	30	164	2.62
LTC1206-1500TS	T	5.0					25	141	2.89
LTC1206-1600TS	F	6.0	16.5	142			11.0		
LTC1206-1700TS	7	7.0	12	140	12.5				
LTC1206-1800TS	M	8.0	24 32	150A@32Vdc 300A@24Vdc	8.5	110	14.0		
LTC1206-2100TS	U	10			6.8	100	20.0		
LTC1206-2120TS	12	12			5.0	85	11.5		
LTC1206-2150TS	15	15			3.9	78	16.5		
LTC1206-2200TS	20	20			1.8	60	47.17		
LTC1206-2250TS	L	25			1.6	90	60		
LTC1206-2300TS	Z	30			1.3	90	100		
LTC1206-2400TS	XL	40	32 24	200A@32Vdc 200A@24Vdc	0.85	95	160		

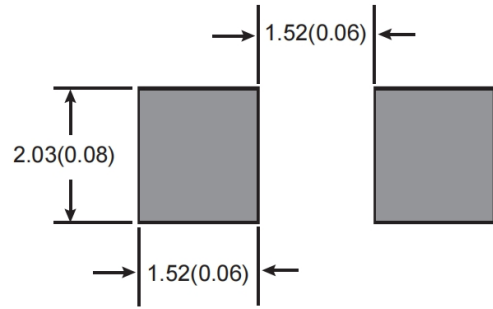
- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
- Typical Pre-arcing I²t are measured at 10In Current.

Product Dimensions (mm)/产品尺寸

Drawing not to scale (Unit:mm/inch)

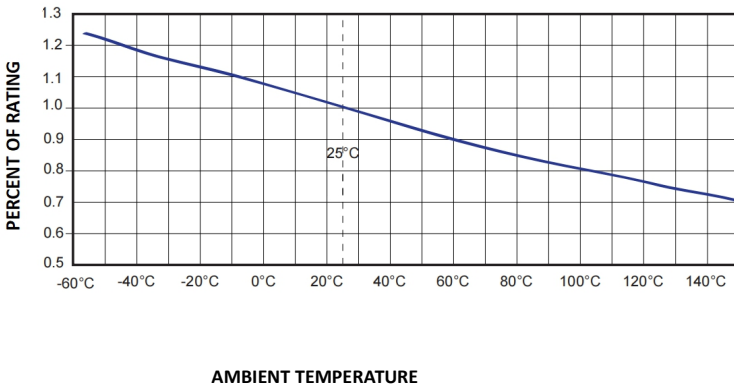


Recommended land pattern (Unit: mm/inch)



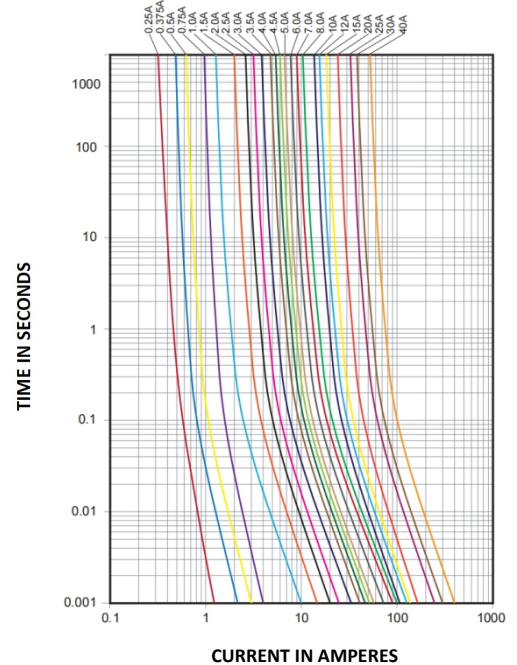
Environmental Characteristic/环境温度特性图

Temperature Derating Curve

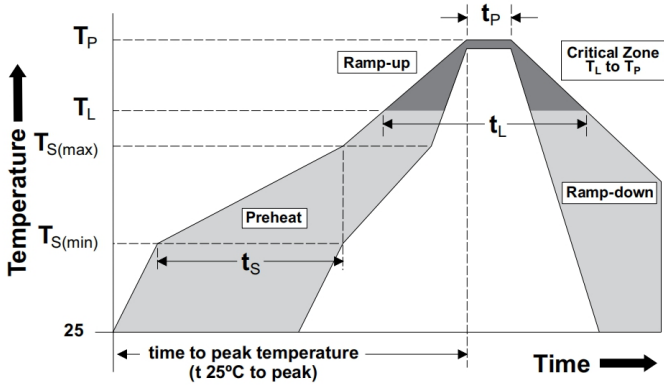


- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 150°C, with proper correction factor applied.

Average Time-Current Curve



Soldering Parameters/焊接参数



Soldering Method		Parameter
Wave Solder	Reservoir Temperature	260°C
	Time in Reservoir	10 seconds max
Infrared reflow	Temperature	260°C
	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°C/second max	
Preheat 预热	-Temperature Min($T_{s(min)}$) 最低温度	150°C
	-Temperature Max($T_{s(max)}$) 最高温度	200°C
	-Time($T_{s(min)}$ to $T_{s(max)}$) 预热时间	60~120 seconds
Reflow 回流焊	-Temperature(T_L) 温度	217°C
	-Time(t_L) 时间	60~150 seconds
Peak Temperature (T_p) 峰值温度	260°C	
Ramp-Down Rate 降温	6°C/second max	
Time 25°C to Peak Temperature 从 25°C到峰值温度时间	8 minutes max	
Time within 5°C of actual peak Temperature (t_p)	20-40 seconds	

Packing/包装

Part Number	Quantity & Packaging Code
LTC1206TS	3000 pcs/reel (8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481)

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.