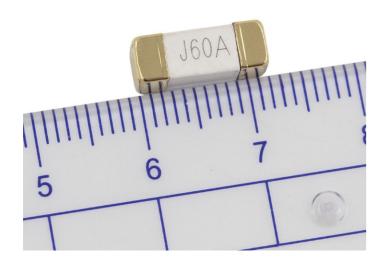
LTC1245TS TIME-LAG FUSE

Surface Mount

Nano Fuse





Description/描述

The JFC1245TS series Time-Lag square Surface Mount fuse are designed for high-end cloud computing servers, telecom base station power supplies, blockchain servers, and new energy vehicle battery management systems,RoHS compliant. Provide board level primary and secondary circuit protection in a wide variety of applications. With excellent inrush current withstanding capability,excellent reliability for thermal and mechanic shock, also have a high reliability and stable solder ability, end caps are available in gold/silver plated.

Features/特征

- Time-lag fuse
- High current rating available
- Low temperature de-rating
- Tape and Reel for automatic placement
- Small size(12.45mm*4.5mm)
- Wide operating temperature range(-55 $^{\circ}$ C to 125 $^{\circ}$ C)
- RoHS compliant
- Conflict free metals
- Wide range of current rating available

Applications/应用

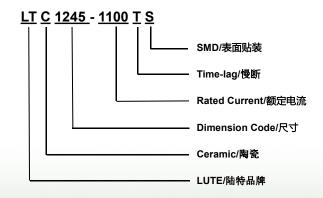
- LED lighting
- LCD backlight inverter
- PC server
- Wireless base station
- Digital camera
- Notebook PC
- Portable Devices
- Cooling fan system
- White goods
- Industrial equipment

- Battery devices
- Power supply
- Storage system
- Game console
- Medical equipment
- LCD/PDP devices
- Networking devices
- Telecom system
- Office equipment
- Automotive devices

Electrical Characteristics/电气特性

% of Ampere Rating	Opening Time at 25℃
100%	4 hours, Minimum
250%	120 seconds, Maximum

Part Number System/产品编号

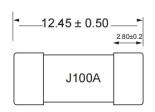


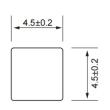
Performance Specifications/电性参数

Part Number	Ampere Rating (A)	Max Voltage Rating (V)	Breaking Capacity	Nominal Cold Resistance (m Ω)	Nominal Melting l² t(A² sec)
LTC1245-1100TS	1.00			75.0	0.87
LTC1245-1200TS	2.00			50.0	3.8
LTC1245-1500FS	5.00			18.0	23
LTC1245-2100TS	10.0			8.05	91
LTC1245-2150TS	15.0		1KA@32VDC	4.50	203
LTC1245-2200TS	20.0	125VDC	500A@72VDC	3.30	360
LTC1245-2250TS	25.0	250VAC	300A@125VDC	2.25	563
LTC1245-2300TS	30.0		100A@250VAC	1.98	810
LTC1245-2400TS	40.0			1.20	1360
LTC1245-2500TS	50.0			0.99	1949
LTC1245-2600TS	60.0			0.79	2887
LTC1245-2800TS	80.0			0.55	5270
LTC1245-3100TS	100.0			0.33	8080

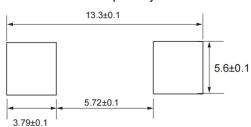
Product Dimensions (mm)/产品尺寸

Unit: mm





Recommended pad layout



Material Details/材料详情

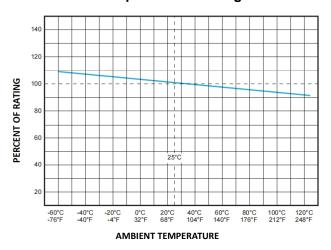
NO.	Part Name	Material
1	End Caps	Au Plated Brass Cap
2	Body	Non-Transparent Square Cetamic Tube
3	Fuse element	Cu-Ag/Tin Alloy wire

Product Characteristics/产品特性

No.	Item	Contain	Reference Standard
1	Operating Temperature	-55° C to + 125° C	55°C to 125°C with proper derating
2	Solderability	T=240°C±5°C,t=3sec±0.5sec, Coverage≥95%	MIL-STD-202, Method 208
3	Resistance to Soldering Heat	10 sec at 260°C	MIL-STD-202, Method 210, Test Condition B
4	Insulating Resistance (after Opening)	10,000 ohms minimum	MIL-STD-202, Method 302, Test Condition A
5	Thermal Shock	5 cycle,-65°C to +125°C, 15minutes at each extreme	MIL-STD-202, Method 107, Test Condition B
6	Mechanical Shock	100G 's peak for 6 milliseconds, 3cycles	MIL-STD-202, Method 213, Test Condition I
7	Vibration	0.03" amplitude,10-55 Hz in 1min. 2hrs each XYZ=6hrs	MIL-STD-202, Method 201
8	Moisture Resistance	10 cycles	MIL-STD-202, Method 106
9	Salt Spray	5% salt solution,48hrs	MIL-STD-202, Method 101, Test Condition B

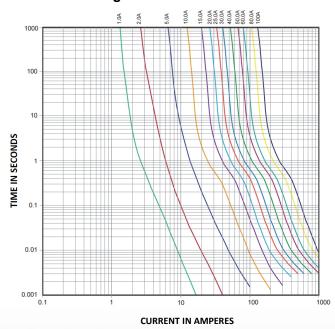
Environmental Characteristic/环境温度特性图

Temperature Derating Curve

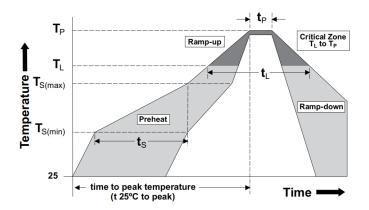


 When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20-30°C, engineer should consider the environmental temperature's affection to fuse.

Average Time-Current Curve



Soldering Parameters/焊接参数



Soldering Method		Parameter
Wave/Reflow Solder	Reservoir Temperature	260℃
	Time in Reservoir	5 seconds max
Hand-solder	Temperature	300±5℃
	Heating Time	1~2 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		5℃/second max
	-Temperature Min(T _{s(min)}) 最低温度	150℃
Preheat 预热	-Temperature Max(T _{s(max)}) 最高温度	200℃
	-Time(T _(smin) to T _(smax)) 预热时间	60~180 seconds
Reflow	-Temperature(T _L) 温度	
回流焊	-Time(t∟) 时间	60~150 seconds
Peak Temperature (T _p) 峰值温度		260℃
Ramp-Down Rate 降温		5℃/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)		20-40 seconds
Ts(max)to TL-Ramp-up Rate		5℃/second max
Do not exceed		260℃

Packing/包装

Part Number	Quantity & Packaging Code	
LTC1245TS	1500 pcs/reel 24mm tape-and-reel on13 inch (330mm) reel	

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.

