

LTC2410TS TIME-LAG FUSE

Surface Mount

Nano Fuse



Description/描述

JFC2410TS series time-lag square Surface Mount fuses are ceramic tube/end cap constructions, 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 mechanical shock, also have a high reliability and stable solder ability, end caps are available in gold/silver/nickel plated.

Features/特征

- Time-lag
- High current rating available
- Low temperature de-rating
- Tape and Reel for automatic placement
- Small size(6.1mm*2.5mm)
- Wide operating temperature range(-55°C to 125°C)
- RoHS compliant
- Conflict free metals
- Wide range of current rating available

Applications/应用

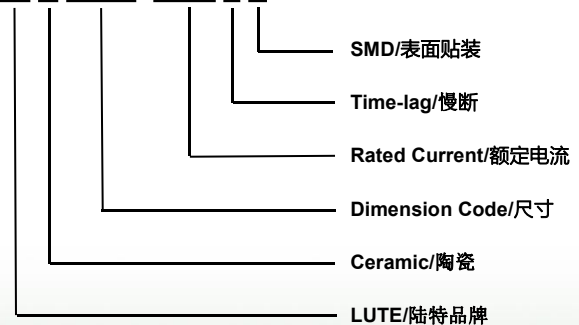
- LED lighting
- LCD backlight inverter
- PC server
- Wireless base station
- Digital camera
- Notebook PC
- Portable Devices
- Cooling fan system
- White goods
- Industrial equipment
- Battery devices
- Power supply
- Storage system
- Game console
- Medical equipment
- LCD/PDP devices
- Networking devices
- Telecom system
- Office equipment
- Automotive devices

Electrical Characteristics/电气特性

% of Ampere Rating	Opening Time at 25°C
100%	4 hours, Minimum
200%	120 seconds, Maximum
1000%	10 milliseconds, Minimum

Part Number System/产品编号

LT C 2410 - 0100 T S

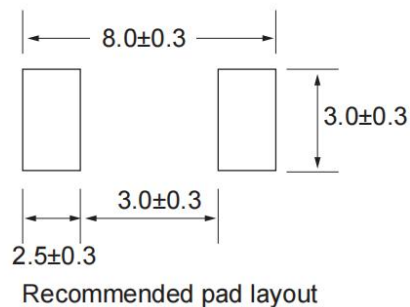
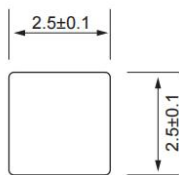
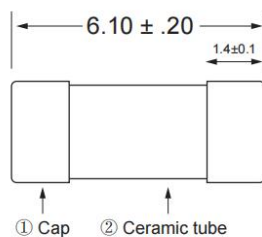


Performance Specifications/电性参数

Part Number	Ampere Rating (A)	Max Voltage Rating (V)	Breaking Capacity	Nominal Cold Resistance (mΩ)	Nominal Melting I ² t (A ² sec)
LTC2410-0100TS	0.10	250V	50A @250V	3100	0.0138
LTC2410-0250TS	0.25			860	0.145
LTC2410-0500TS	0.50			320	0.275
LTC2410-0750TS	0.75			175	1.240
LTC2410-1100TS	1.00			148	3.500
LTC2410-1150TS	1.50			85	6.305
LTC2410-1200TS	2.00			44	8.950
LTC2410-1250TS	2.50			43	16.025
LTC2410-1300TS	3.00			33	21.560
LTC2410-1315TS	3.15			29	22.750
LTC2410-1350TS	3.50			27	27.050
LTC2410-1400TS	4.00			25	31.808
LTC2410-1500TS	5.00			19	40.250
LTC2410-1600TS	6.00			18	67.245
LTC2410-1630TS	6.30			17	107.55
LTC2410-1700TS	7.00			15	132.78
LTC2410-1800TS	8.00	7.0	235.18		
LTC2410-2100TS	10.0	7.0	270.50		
LTC2410-2120TS	12.0	125V	100A @125V	7.0	331.52
LTC2410-2150TS	15.0			6.0	375.66
LTC2410-2200TS	20.0	72V	500A @72V	2.3	410.00
LTC2410-2250TS	25.0			1.7	550.00
LTC2410-2300TS	30.0			1.2	900.00

Product Dimensions (mm)/产品尺寸

Outline Drawing and dimensions (unit : mm)



Material Details/材料详情

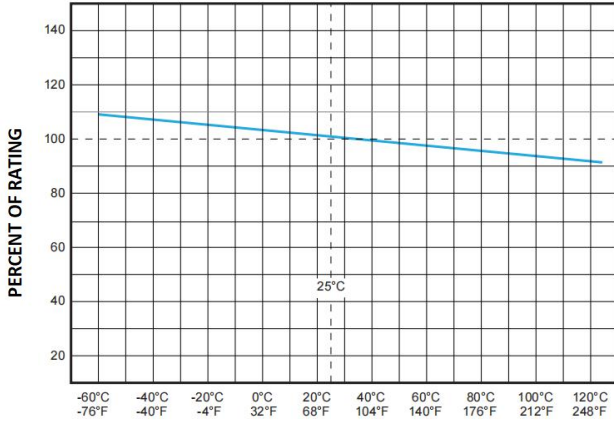
NO.	Part Name	Material
1	End Caps	Au Plated Brass Cap
2	Body	Non-Transparent Square Ceramic Tube
3	Fuse element	Cu-Ag/Tin Alloy wire

Product Characteristics/产品特性

No.	Item	Contain	Reference Standard
1	Operating Temperature	-55° C to +125° C	IEC60068-2-1/2
2	Solderability	T=240° C ± 5° C, t=5+0/-0.5s, Cover ≥ 95%	MIL-STD-202G, Method 208H
3	Resistance to Soldering Heat	10 sec at 260°C	MIL-STD-202G, Method 210F, Test Condition B
4	Insulating Resistance (after Opening)	10,000 ohms minimum	MIL-STD-202, Method 302, Test Condition A
5	Thermal Shock	5 cycles, -65°C to +125°C, 15minutes at each extreme	MIL-STD-202G, Method 107G, Test Condition B
6	Mechanical Shock	100G 's peak for 6 milliseconds, 3cycles	MIL-STD-202G, Method 213B, Test Condition I
7	Vibration	0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs	MIL-STD-202G, Method 201A
8	Moisture Resistance	10 cycles	MIL-STD-202G, Method 106G
9	Salt Spray	5% salt solution, 48hrs	MIL-STD-202G, Method 101E Test Condition B

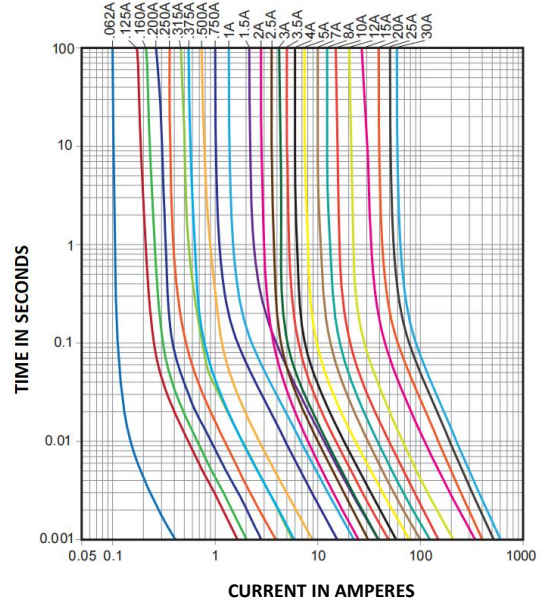
Environmental Characteristic/环境温度特性图

Temperature Derating Curve

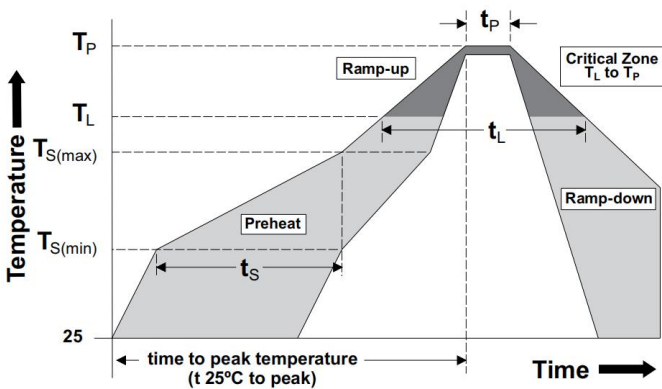


- When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20-30°C, engineer should consider the environmental temperature's affection to fuse.

Average Time-Current Curve



Soldering Parameters/焊接参数



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°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	60~180 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	5°C/second max	
Time 25°C to Peak Temperature 从 25°C到峰值温度时间	8 minutes max	

Packing/包装

Part Number	Quantity & Packaging Code
LTC2410TS	1000 pcs/reel (12mm 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.