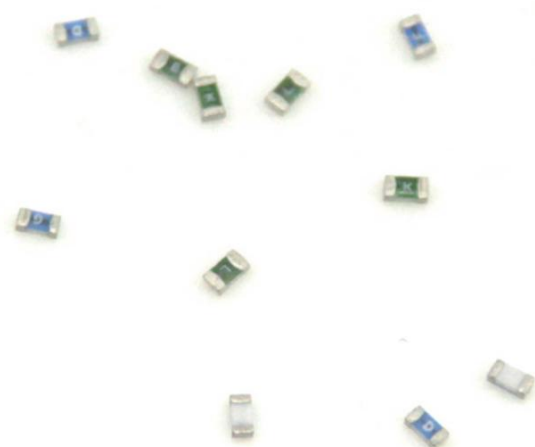




Description/描述

LTC0603TS Series are time-lag fuse, the chip fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics and also makes our chip 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
	E493749	0.1A~7A

Electrical Characteristics/电气特性

% of Rated Current	Opening Time
100%	4 hours, Minimum
200%	1~60 seconds
250%	5 seconds, Maximum

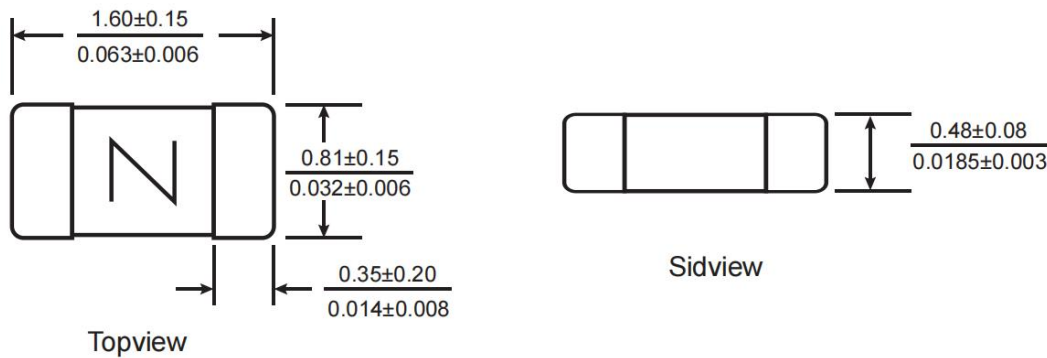
Performance Specifications/电性参数

Part Number	Marking	Rated Current (A)	Rated Voltage DC	Interrupting Rating	Typical Cold Resistance (m Ω)	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² sec)
LTC0603-0250TS	D	0.250	63V 32V	50A	3028	801	0.00046
LTC0603-0375TS	E	0.375			1730	526	0.00103
LTC0603-0500TS	F	0.500			968	521	0.0012
LTC0603-0750TS	G	0.750			431	387	0.0010
LTC0603-1100TS	H	1			233	302	0.0122
LTC0603-1150TS	K	1.5			138	243	0.0490
LTC0603-1200TS	N	2			71	141	0.126
LTC0603-1250TS	O	2.5			43	132	0.151
LTC0603-1300TS	P	3			32	113	0.231
LTC0603-1350TS	R	3.5	25		113	0.56	
LTC0603-1400TS	S	4	16		108	0.63	
LTC0603-1500TS	T	5	13		106	1.36	
LTC0603-1600TS	V	6	9.7		106	1.87	
LTC0603-1700TS	X	7	9.1		71	2.55	
LTC0603-1800TS	Z	8	6.3		66	3.43	

- 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 100% of rated current.

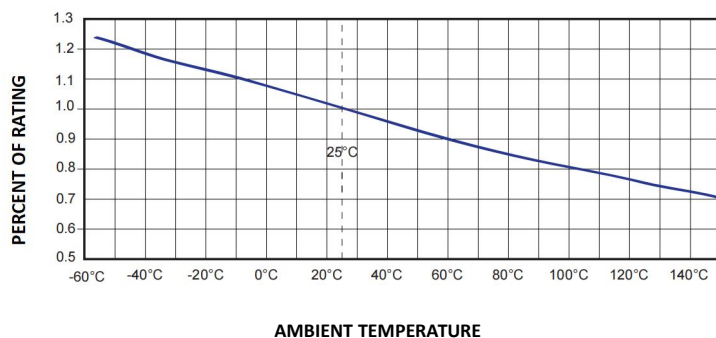
Product Dimensions (mm)/产品尺寸

Drawing not to scale (Unit:mm/inch)



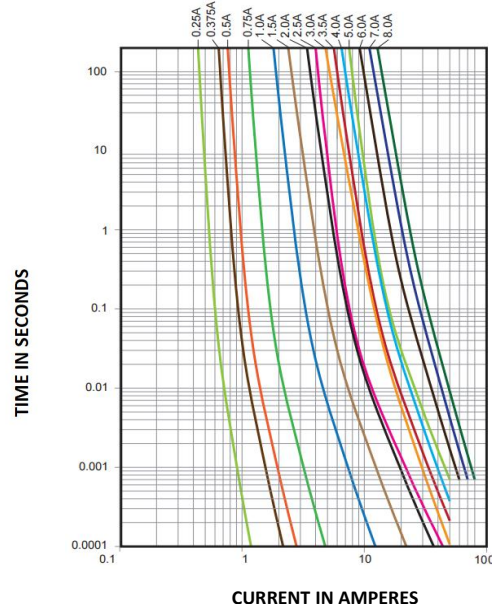
Environmental Characteristic/环境温度特性图

Temperature Derating Curve

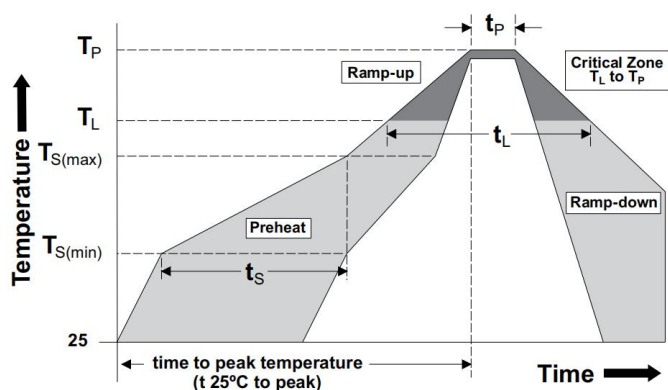


- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 150°C, with proper correction factor applied.

Average Time-Current Curve



Soldering Parameters/焊接参数

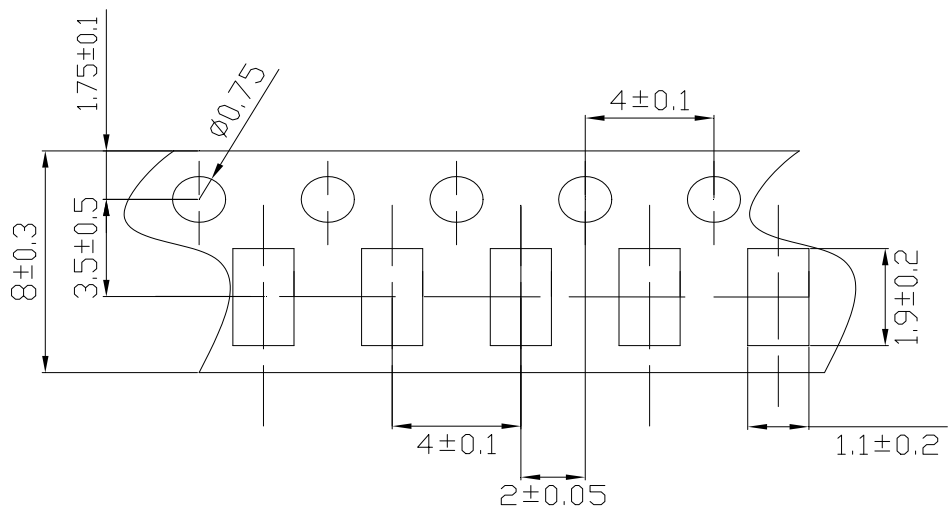


Soldering Method		Parameter
Wave Solder	Reservoir Temperature	260°C
	Time in Reservoir	10 seconds max
Infrared reflow	Temperature	260°C
	Time	30 seconds max

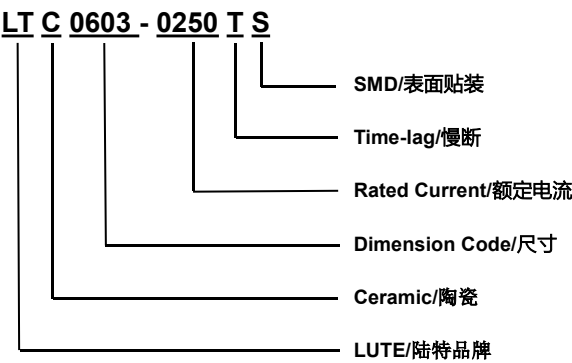
Profile Feature 特征		Pb-Free Assembly 无铅焊锡
Average Ramp-Up Rate ($T_{S(max)}$ to T_P) 平均升温速度		3°C/second max
Preheat 预热	-Temperature Min($T_{S(min)}$) 最低温度	150°C
	-Temperature Max($T_{S(max)}$) 最高温度	200°C
	-Time($T_{S(min)}$ to $T_{S(max)}$) 预热时间	60~120 seconds
Reflow 回流焊	-Temperature(T_L) 温度	217°C
	-Time(t_L) 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)		30 seconds

Packing/包装

Part Number	Quantity
LTC0603TS	5000 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.