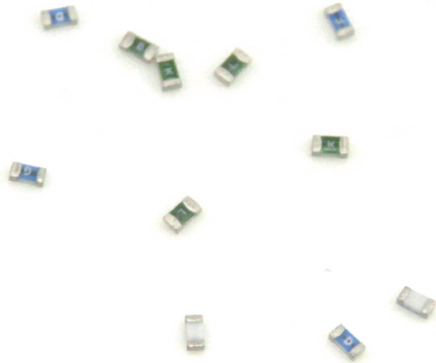


为您的产品保驾护航

PRODUCT DATASHEET

Nano Fuse · Surface Mount

**JFC0603TS TIME-LAG FUSE**




## Descriptions

JFC0603TS 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

- High inrush current with standing 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

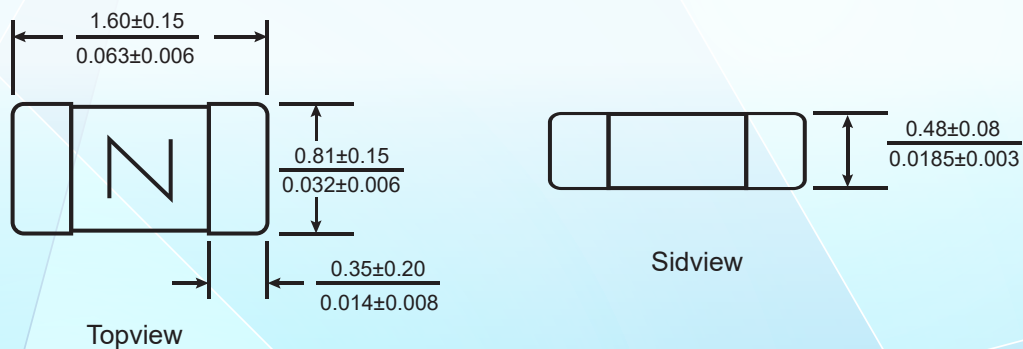
AGENCY	AGENCY FILE NUMBER
	E486200

## Electrical Characteristics

1.0Ih	2.5Ih
4 hour min	60 sec max

## Dimensions

Drawing not to scale (Unit:mm/inch)



## Performance Specification

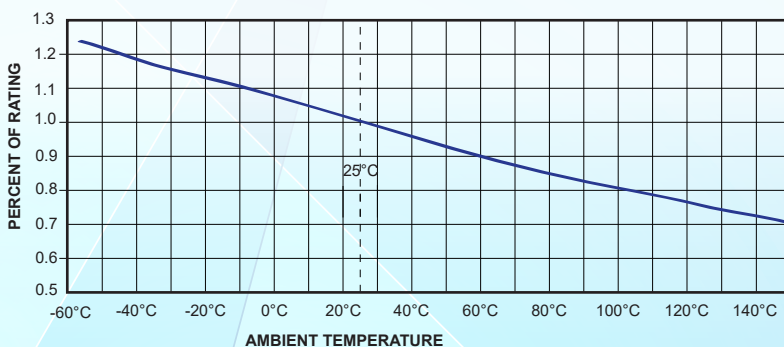
Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity*	Typical Cold Resistance (mΩ)**	Typical Voltage Drop (mV)	Typical Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> Sec)**	Alpha Marking**
JFC0603-0250TS	63V 32V	0.250	50A	3028	801	0.00046	D
JFC0603-0375TS		0.375		1730	526	0.00103	E
JFC0603-0500TS		0.500		968	521	0.0012	F
JFC0603-0750TS		0.750		431	387	0.0010	G
JFC0603-1100TS		1		233	302	0.0122	B
JFC0603-1150TS		1.5		138	243	0.0490	H
JFC0603-1200TS		2		71	141	0.1260	K
JFC0603-1250TS		2.5		43	132	0.151	L
JFC0603-1300TS		3		32	113	0.231	O
JFC0603-1350TS		3.5		25	113	0.56	R
JFC0603-1400TS	32V	4		16	108	0.63	S
JFC0603-1500TS		5		13	106	1.36	T
JFC0603-1600TS		6		9.7	106	1.87	V
JFC0603-1700TS		7		9.1	71	2.55	X
JFC0603-1800TS		8		6.3	66	3.43	Z

\* 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 25degrees  
 \*\*\*Typical Pre-arching I<sup>2</sup>t are measured at 10In Current  
 \*\* For 1A-5A, the color of glass coating is Green; for others, it's Blue.

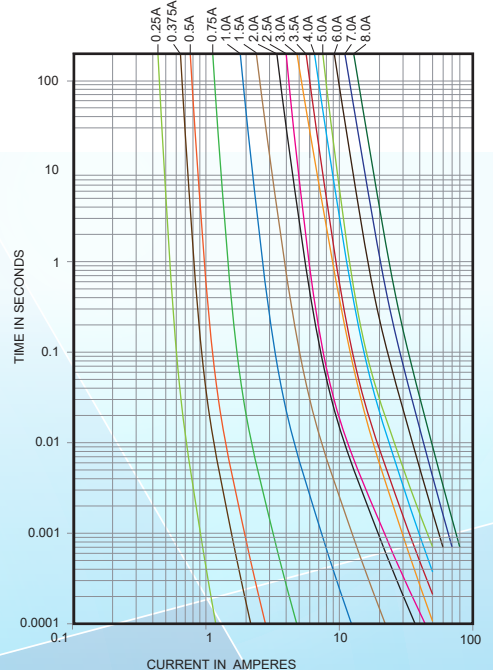
## Environmental Characteristic

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

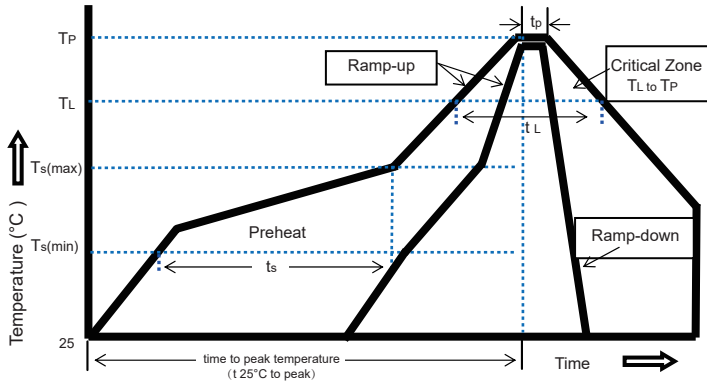
### Temperature Derating Curve



### Average Time-Current Curve



### Recommended Soldering Parameters



Soldering Method		Parameter
Wave solder	Reservoir temperature	260°C
	Time in reservoir	10 Secs max
Infrared reflow	Temperature	260°C
	Time	30 Secs max

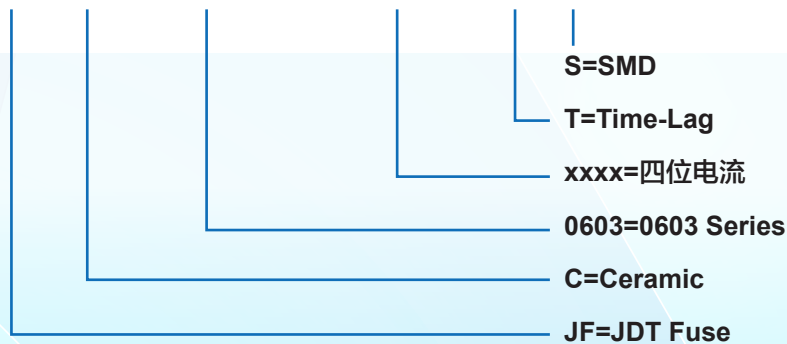
Profile Feature	Lead(Pb) free solder	
Preheat and soak	Temperature min (T <sub>smin</sub> )	150°C
	Temperature max (T <sub>smax</sub> )	200°C
	Time (T <sub>smin</sub> to T <sub>smax</sub> )(ts)	60-120 Secs
Average ramp up rate T <sub>smax</sub> to T <sub>p</sub>	3°C/Secs Max	
Liquidous temperature(T <sub>L</sub> )	217°C	
Time at liquidous(t <sub>L</sub> )	60-150 Secs	
Peak package body temperature (T <sub>P</sub> )	260°C	
Time (t <sub>P</sub> ) within 5°C of the specified calssification temperaturea(T <sub>C</sub> )	30 Secs	
Average ramp-down rate (T <sub>P</sub> to T <sub>smax</sub> )	6°C/Secs Max	
Time (25°C to Peak Temperature)	8 Minutes Max	

### Packing

No.	Quantity &Packaging Code
JFC0603TS	5000 fuses/reel (8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481)

### Part Numbering System

**JF C 0603 - xxxx T S**



### OTHERS

- 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.