集电通
JDT FUSE
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PRODUCT DATASHEET

Nano Fuse · Surface Mount

JFC0603TS TIME-LAG FUSE

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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

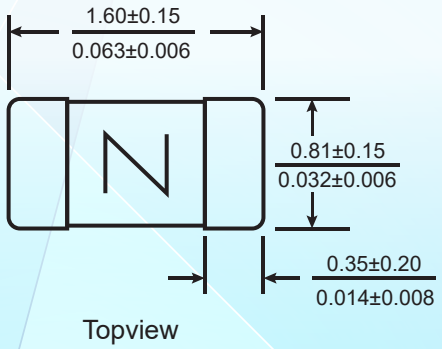
AGENCY	AGENCY FILE NUMBER
	E486200

Electrical Characteristics

1.0Ih	2.0Ih	2.5Ih
4 hour min	1~60 sec	60 sec max

Dimensions

Drawing not to scale (Unit:mm/inch)



Topview

Sidview

Performance Specification

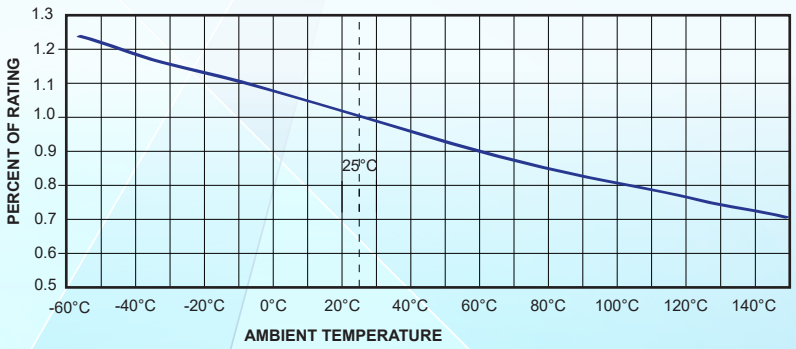
Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity*	Typical Cold. Resistance (mΩ)**	Typical Voltage Drop (mV)	Typical Pre-Arcing I²t (A²Sec)***	Aplha Marking**
JFC0603-0250TS	63V 32V	0.250	50A	3028	801	0.00046	D
JFC0603-0375TS		0.375		1730	526	0.00103	E
JFC0603-0500TS		0.500		968	521	0.0012	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	32V	3.5		25	113	0.56	R
JFC0603-1400TS		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 I²t are measured at 10In Current
** For 1A-5A, the color of glass coating is Green; for others, it's Blue.

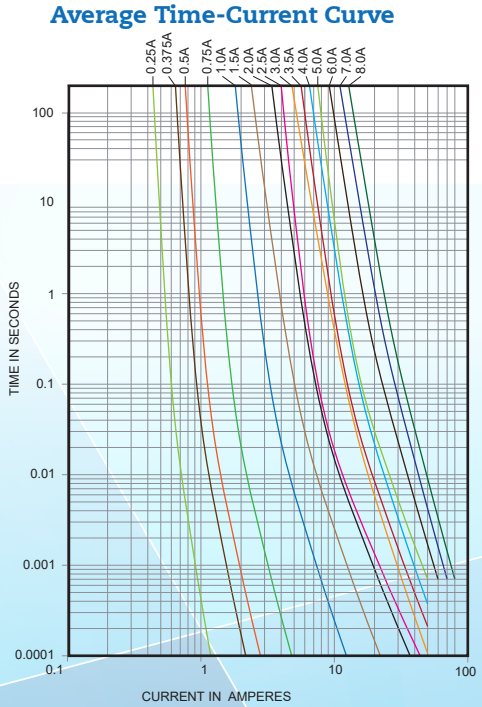
Environmental Characteristic

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

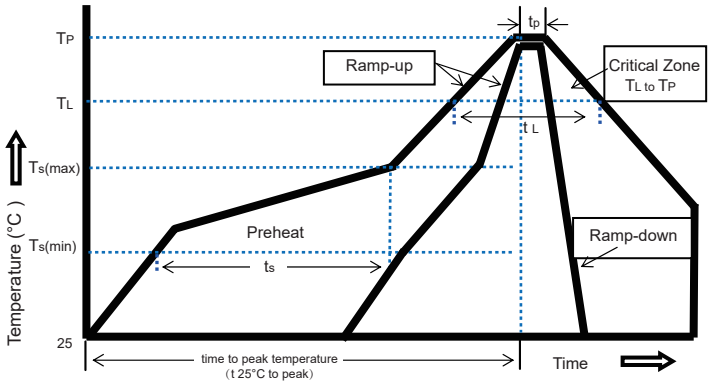
Temperature Derating Curve



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_{smin})	150°C
	Temperature max (T_{smax})	200°C
	Time (T_{smin} to T_{smax})(t_S)	60-120 Secs
Average ramp up rate T_{smax} to T_p		3°C/Secs Max
Liquidous temperature(T_L) Time at liquidous(t_L)		217°C 60-150 Secs
Peak package body temperature (T_P)		260°C
Time (t_P) within 5°C of the specified calssification temperaturea(T_C)		30 Secs
Average ramp-down rate (T_P to T_{smax})		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

- S=SMD
- T=Time-Lag
- xxxx=四位电流
- 0603=0603 Series
- C=Ceramic
- JF=JDT Fuse

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.