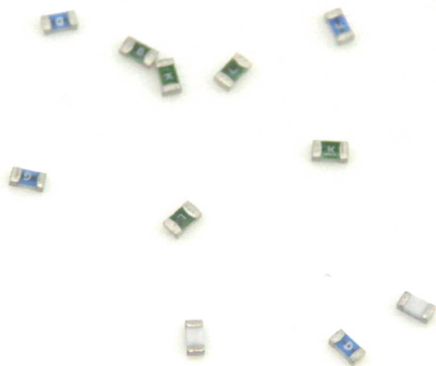


为您的产品保驾护航

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

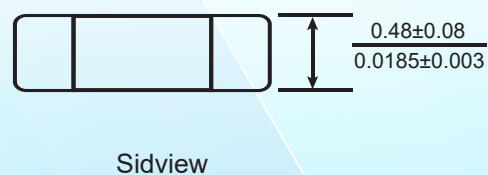
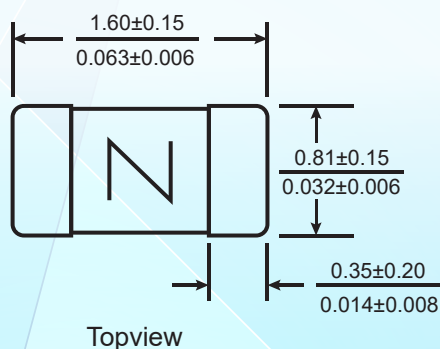
AGENCY	AGENCY FILE NUMBER
	E486200

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 ² t (A ² 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	32V	3		32	113	0.231	O
JFC0603-1350TS		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

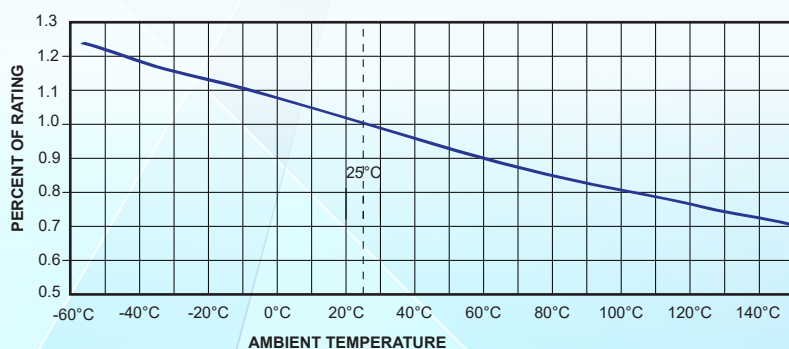
***Typical Pre-arching I²t are measured at 10In Current

** For 1A-5A, the color of glass coating is Green; for others, it's Blue.

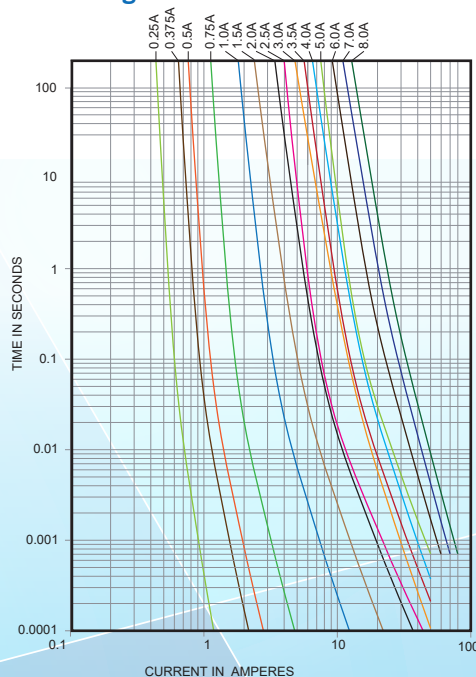
Environmental Characteristic

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

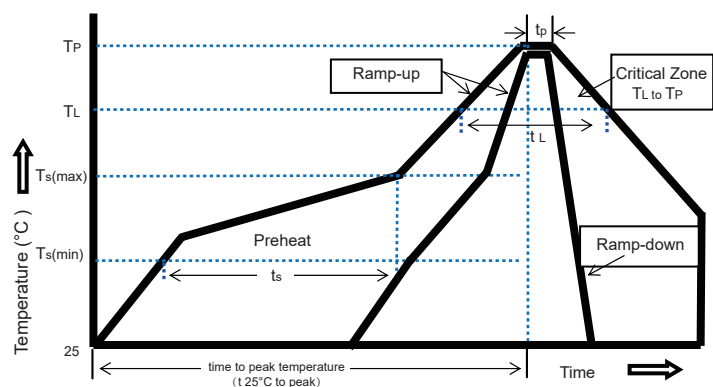
Temperature Derating Curve



Average Time-Current Curve



Recommended Soldering Parameters

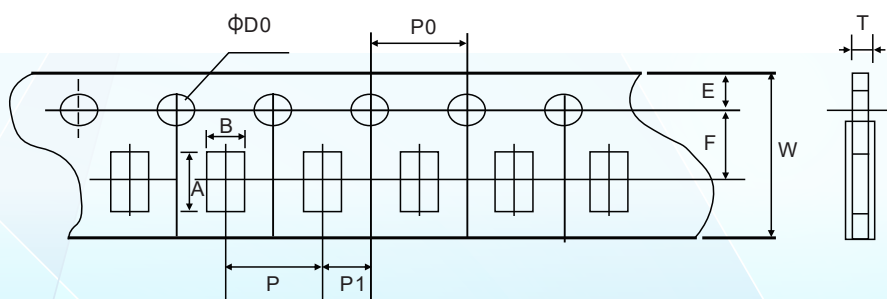


Soldering Method		Parameter
Wave solder	Reservoir temperature	260°C
	Time in reservoir	10 Secs max
Infrared reflow	Temperature	260°C
	Time	30 Secs max

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)		217°C
Time at liquidous(t_L)		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)



Type	A	B	W	F	E
Spec	1.85±0.10	1.10±0.10	8.00±0.10	3.50±0.05	1.75±0.10
Type	P	P0	P1	D0	T
Spec	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.65±0.10

(Unit: mm)

Part Numbering System

JF C 0603 - xxxx T S

S=SMD

T=Time-Lag

xxxx=Rate Current

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.