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PRODUCT DATASHEET

Nano Fuses · Surface Mount

**JFC1206TS TIME-LAG FUSE**




## Description

JFC1206TS Series are the fuses set the industry standard for performance, reliability and quality. The solder - free design provides excellent on - off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

## Features

- 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

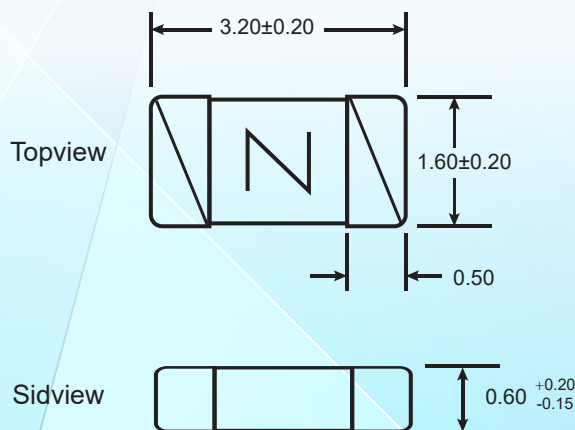
Agency	Agency File Number
	E486200

## Electrical Characteristics

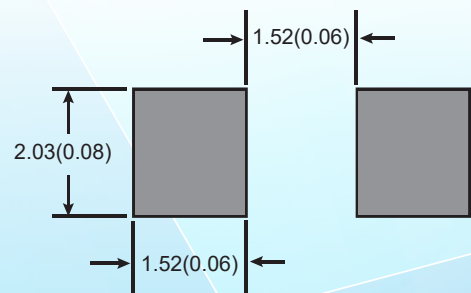
Rated Current	1.0In	2.5In	3.0In	3.5In	10.0In
0.25A~0.75A	4.0 hour min	-	-	5.0 sec max	0.2ms-20ms
1~3A	4.0 hour min	1.0 sec-60 sec	0.1 sec-3.0 sec	-	0.2ms-20ms
3.5A~5A	4.0 hour min	5.0 sce max	0.1 sec-3.0 sec	-	0.2ms-10ms
6A~8A	4.0 hour min	-	0.1 sec-3.0 sec	5.0 sec max	0.2ms-10ms
10A~15A	4.0 hour min	-	-	5.0 sec max	0.2ms-10ms
20A	4.0 hour min	-	-	5.0 sec max	0.2ms-10ms
25~50A	4.0 hour min	-	0.1 sec-3.0 sec	5.0 sec max	0.2ms-10ms

## Dimensions

Drawing not to scale (Unit: mm)



Recommended land pattern Unit: mm(inch)



## Performance Specification

Part No.	Rated Voltage DC(V)	Rated Current (A)	Breaking Capacity*	Typical Cold Resistance (mOhms)**	Typical Voltage Drop (mV)	Typical Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) <sup>***</sup>	Aplha Marking		
JFC1206-0250TS	72	0.25	50A@72Vdc	3248	1267	0.00043	.25		
JFC1206-0375TS		0.375		1691	647	0.00086	E		
JFC1206-0500TS		0.50		926	583	0.0025	B		
JFC1206-0750TS		0.75		543	553	0.0061	.75		
JFC1206-1100TS		63		1.0	441	457	0.12	H	
JFC1206-1125TS		32		1.25	50A@63Vdc	330	405	0.15	H
JFC1206-1150TS		24		1.5	150A@32Vdc	216	332	0.17	K
JFC1206-1200TS		2.0		300A@24Vdc	119	285	0.46	N	
JFC1206-1250TS		2.5		69	216	0.73	O		
JFC1206-1300TS		3.0		43	169	1.52	P		
JFC1206-1350TS		3.5		36	161	1.84	R		
JFC1206-1400TS		4.0		32	152	1.91	S		
JFC1206-1450TS		24		4.5	150A@32Vdc	27	144	2.89	X
JFC1206-1500TS				5.0		22	127	3.17	T
JFC1206-1600TS				6.0		300A@24Vdc	14	123	12.3
JFC1206-1700TS	7.0		10	121		13.7	7		
JFC1206-1800TS	8.0		7.7	99		15.4	M		
JFC1206-2100TS	10		6.2	91		22.0	U		
JFC1206-2120TS	32		12	4.3		76	22.7	12	
JFC1206-2150TS	15		150A@32Vdc	3.6		69	28.2	15	
JFC1206-2200TS	20		300A@24Vdc	1.6		53	51.9	20	
JFC1206-2250TS	25		1.4	79		66.0	L		
JFC1206-2300TS	30	1.1	79	109	Z				
JFC1206-2400TS	40	200A@32Vdc	0.76	86	176	XL			
JFC1206-2500TS	50	200A@24Vdc	0.68	93	256	50			

\* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

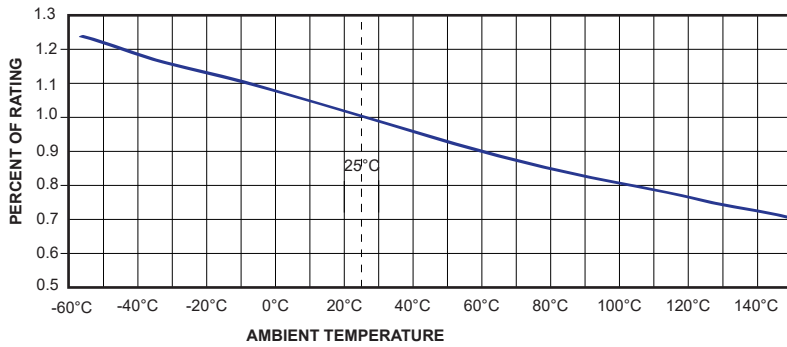
\*\* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

\*\*\* Typical Pre - arcing I<sup>2</sup>t are measured at 10In Current

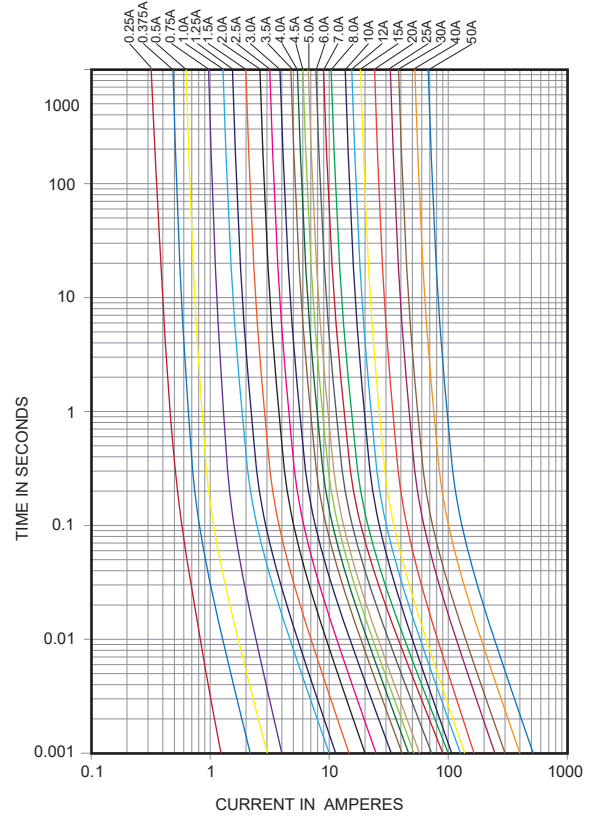
## Environmental Characteristic

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

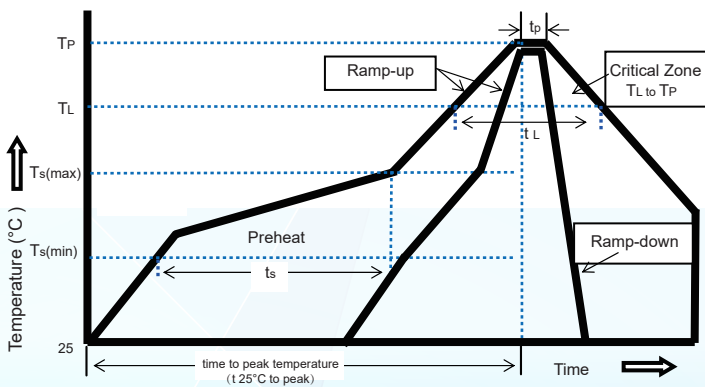
### Temperature Derating Curve



### 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

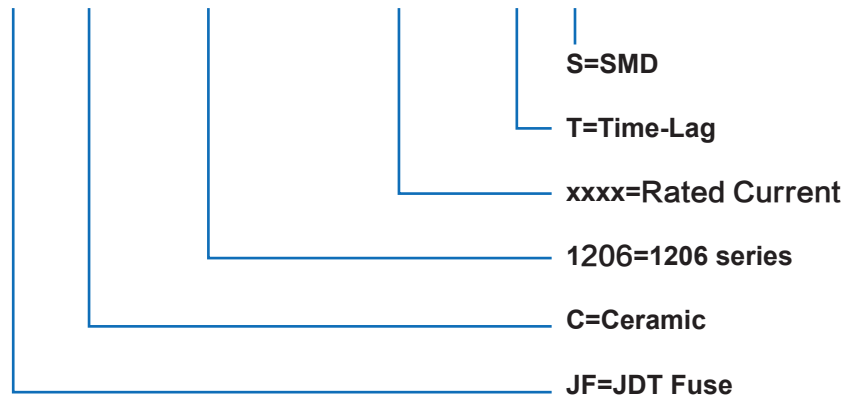
Profile Feature	Lead(Pb) free solder	
Preheat and soak	Temperature min ( $T_{smin}$ )	150°C
	Temperature max ( $T_{smax}$ )	200°C
	Time ( $T_{smin}$ to $T_{smax}$ )( $t_s$ )	60-120 Secs
Average ramp up rate $T_{smax}$ to $T_p$	3°C/Secs Max	
Liquidous temperature( $T_L$ ) Time at liquidous( $t_L$ )	217°C 60-150 Secs	
Peak package body temperature ( $T_p$ )	260°C	
Time ( $t_p$ ) within 5°C of the specified classification temperature( $T_c$ )	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
JFC1206TS	3000 fuses/reel 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481

**Part Numbering System**

**JF C 1206 - 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.