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PRODUCT DATASHEET

Nano Fuses · Surface Mount

JFC1206TS TIME-LAG FUSE



Agency Approvals

Agency	Agency File Number
	E486200

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

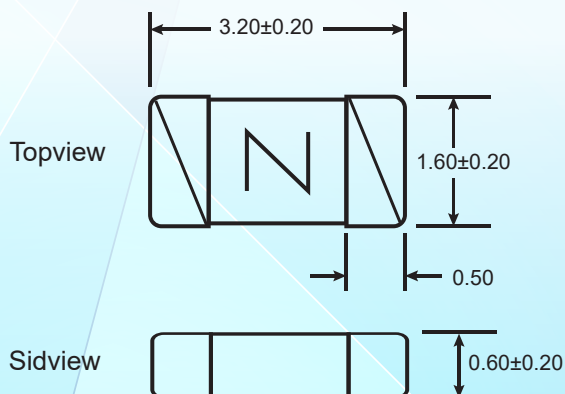
- High inrush current withstanding capability
- Compatible with reflow and wave solder
- Ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Electrical Characteristics

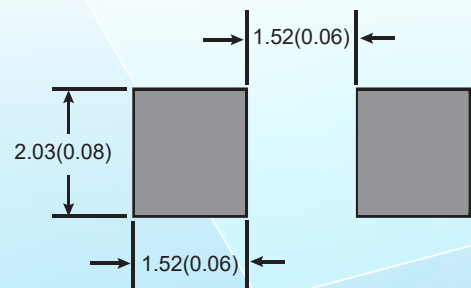
Rated Current	1.0In	2.5In	3.0In	3.5In	10.0In
0.25A~0.75A	4 hour min	-	-	5 sec max	0.2 ms-20 ms
1A~3A	4 hour min	1 sec - 60 sec	0.1 sec -3.0 sec	-	0.2 ms-20 ms
3.5A~5A	4 hour min	5 sec max	0.1 sec -3.0 sec	-	0.2 ms-10 ms
6A~8A	4 hour min	-	0.1 sec -3.0 sec	5 sec max	0.2 ms-10 ms
10A~15A	4 hour min	-	-	5 sec max	0.2 ms-10 ms
20A	4 hour min	-	-	5 sec max	0.2 ms-10 ms
25A~50A	4 hour min	-	0.1 sec -3.0 sec	5 sec max	0.2 ms-10 ms

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 (mΩ) **	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec) ***	Aplha Marking
JFC1206-0250TS	72 63 32 24	0.25	50A@72Vdc 50A@63Vdc 150A@32Vdc 300A@24Vdc	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		1.0		441	457	0.12	H
JFC1206-1125TS		1.25		283	450	0.15	h
JFC1206-1150TS		1.5		216	332	0.17	K
JFC1206-1200TS		2.0		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	32 24	4.5	150A@32Vdc 300A@24Vdc	27	144	2.89	X
JFC1206-1500TS		5.0		22	127	3.17	T
JFC1206-1600TS		6.0		14	123	12.3	F
JFC1206-1700TS		7.0		10	121	13.7	7
JFC1206-1800TS		8.0	150A@32Vdc 300A@24Vdc	7.7	99	15.4	M
JFC1206-2100TS		10.0		6.2	91	22.0	U
JFC1206-2120TS		12.0		4.3	76	39.9	12
JFC1206-2150TS		15.0		3.6	69	48.2	15
JFC1206-2200TS		20.0		1.6	53	51.9	20
JFC1206-2250TS		25.0		1.4	79	66.0	L
JFC1206-2300TS		30.0		1.1	79	109	Z
JFC1206-2400TS		40.0	200A@32Vdc	0.76	86	176	XL
JFC1206-2500TS		50.0	200A@24Vdc	0.68	93	256	50

* Typical Pre-arcing I²t are measured at 10I_n Current

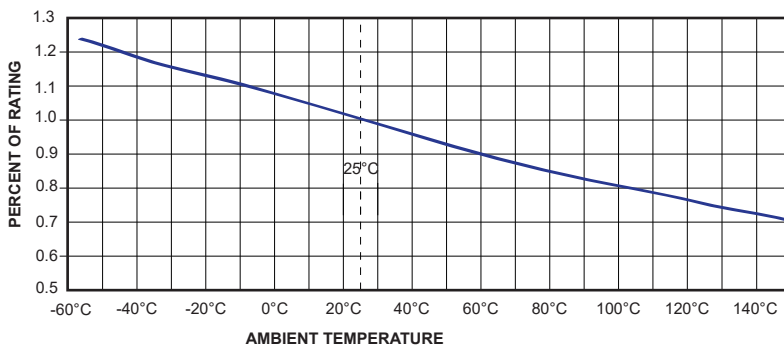
** DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

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

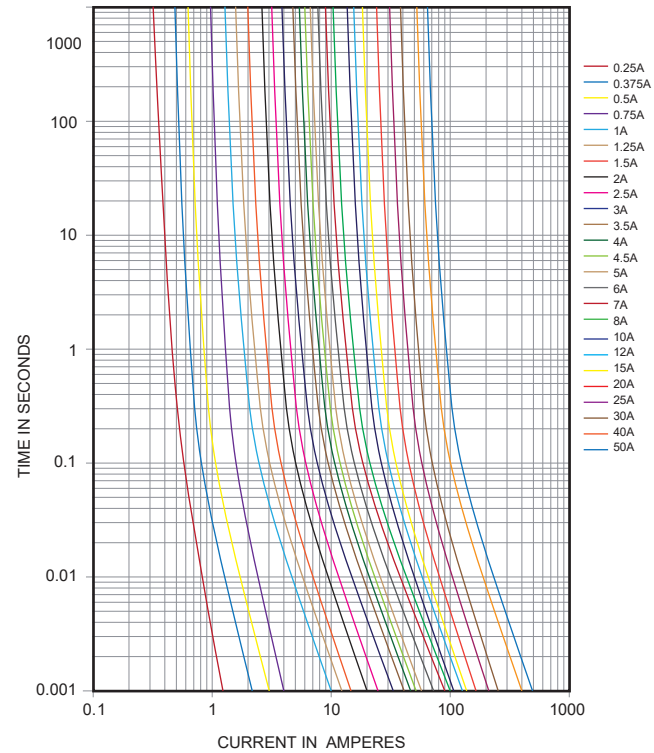
Environmental Characteristic

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

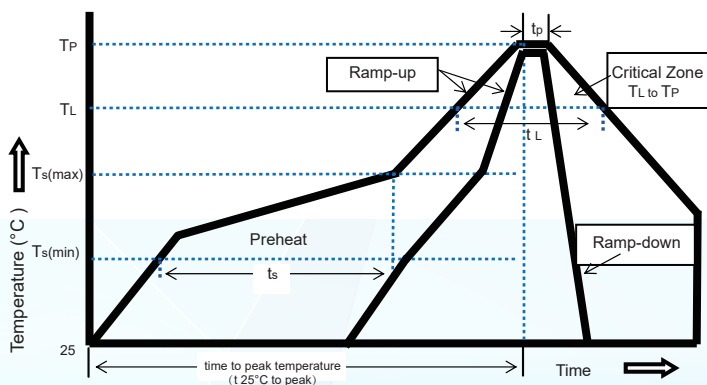
Temperature Derating Curve



Average Time-Current Curve



Recommended Soldering Parameters



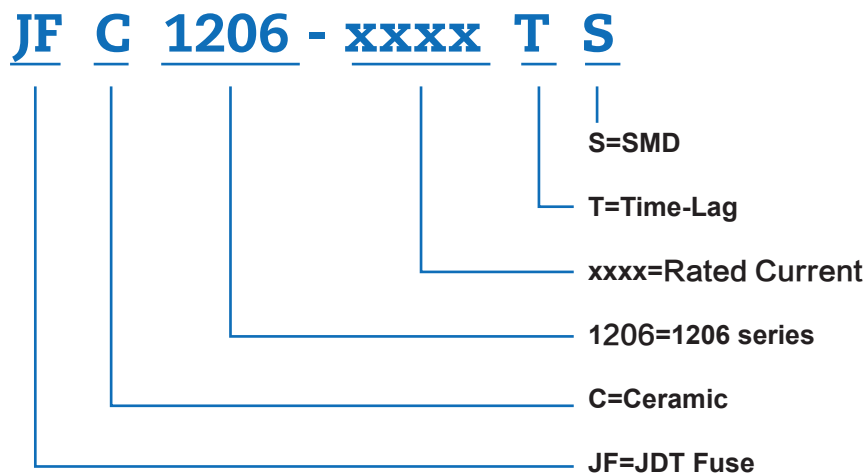
Soldering Method		Parameter
Wave solder	Reservoir temperature	260°C
	Time in reservoir	10 Secs max
Infrared reflow	Temperature	260°C
	Time	30 Secs max

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})(ts)	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 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



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.