集电通
JDT FUSE
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PRODUCT DATASHEET

Nano Fuses · Surface Mount

JFC1206FS FAST ACTING FUSE

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Description

JFC1206FS 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

- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- One time positive disconnect
- Lead Free and Halogen free material

Agency Approvals

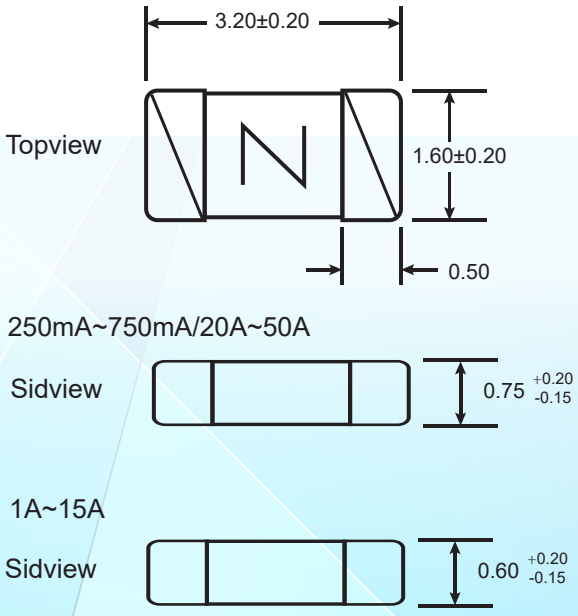
Agency	Agency File Number
	E486200

Electrical Characteristics

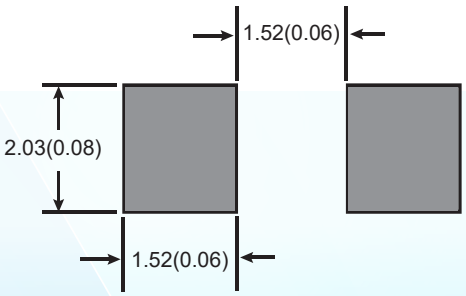
Rated Current	1.0In	2.5In	3.5In
250mA~5A	4 hour min.	5 sec max.	-
6A~50A		-	5 sec max.

Dimensions

Drawing not to scale (Unit: mm)



Recommended land pattern Unit: mm(inch)



Performance Specification

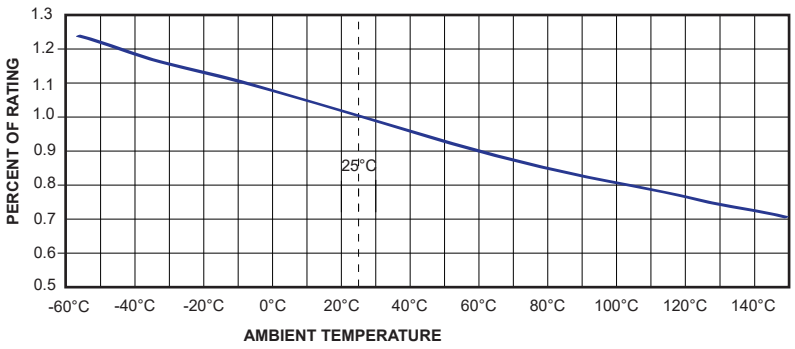
Part No.	Rated Voltage DC(V)	Rated Current (A)	Breaking Capacity *	Typical Cold. Resistance (mΩ) **	Typical Voltage Drop (mV)	Typical Pre-Arcing I^2t (A^2Sec)***	Aplha Marking
JFC1206-0250FS	72 63 32 24	0.25	50A@72Vdc 50A@63Vdc 150A@32Vdc 300A@24Vdc	3608	1407	0.0004	.25
JFC1206-0375FS		0.375		1882	718	0.0008	E
JFC1206-0500FS		0.50		1028	650	0.0019	B
JFC1206-0750FS		0.75		601	616	0.0057	.75
JFC1206-1100FS		1.0		490	510	0.10	H
JFC1206-1150FS		1.5		240	367	0.15	K
JFC1206-1200FS		2.0		132	316	0.41	N
JFC1206-1250FS		2.5		77	240	0.65	O
JFC1206-1300FS		3.0		48	187	1.39	P
JFC1206-1350FS		3.5		40	180	1.68	R
JFC1206-1400FS		4.0		35	173	1.73	S
JFC1206-1450FS	32 24	4.5	150A@32Vdc 300A@24Vdc	30	164	2.62	X
JFC1206-1500FS		5.0		25	141	2.89	T
JFC1206-1600FS		6.0		16.5	142	11.0	F
JFC1206-1700FS		7.0		12	140	12.5	7
JFC1206-1800FS		8.0	150A@32Vdc 300A@24Vdc	8.5	110	14.0	M
JFC1206-2100FS		10		6.8	100	20.0	U
JFC1206-2120FS		12		5.0	85	11.5	12
JFC1206-2150FS		15		3.9	78	16.5	15
JFC1206-2200FS		20		1.8	60	47.17	20
JFC1206-2250FS		25		1.6	90	60	L
JFC1206-2300FS		30		1.3	90	100	Z
JFC1206-2400FS		40	200A@32Vdc 200A@24Vdc	0.85	95	160	XL
JFC1206-2500FS		50		0.70	95	260	50

* Typical Pre-arcing I^2t are measured at 10In 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

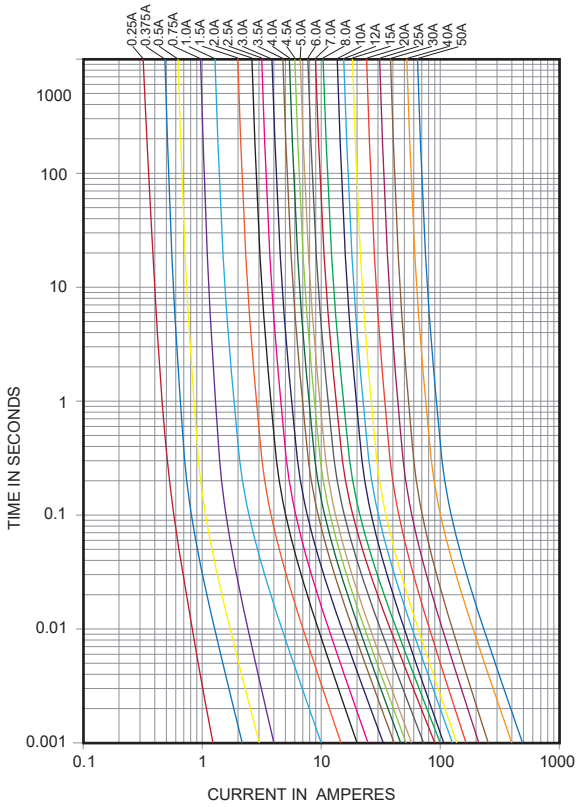
Environmental Characteristic

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

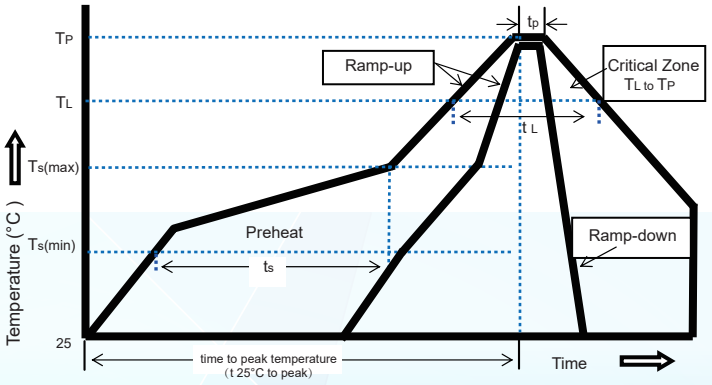
Temperature Derating Curve



Average Time-Current Curve



Recommended Soldering Parameters



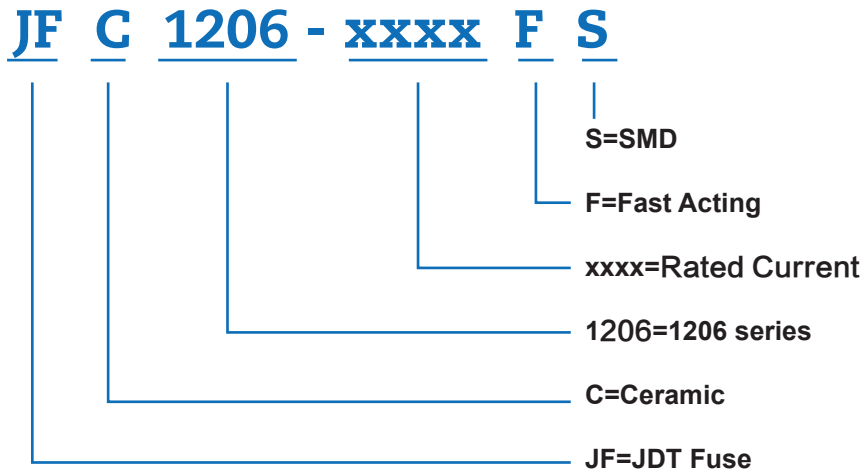
Soldering Method		Parameter
Wave solder	Reservoir temperature	260°C
	Time in reservoir	10 Secs max
Infrared reflow	Temperature	260°C
	Time	30 Secs max

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})(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
JFC1206FS	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.