集电通
JDT FUSE
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PRODUCT DATASHEET

Nano Fuses · Surface Mount

JFC0603FS FAST ACTING FUSE

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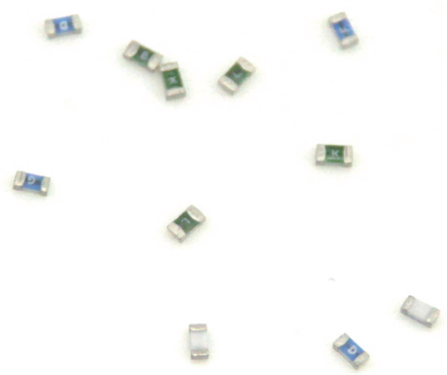


Descriptions

JFC0603FS Series are fast acting 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

- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Agency Approvals

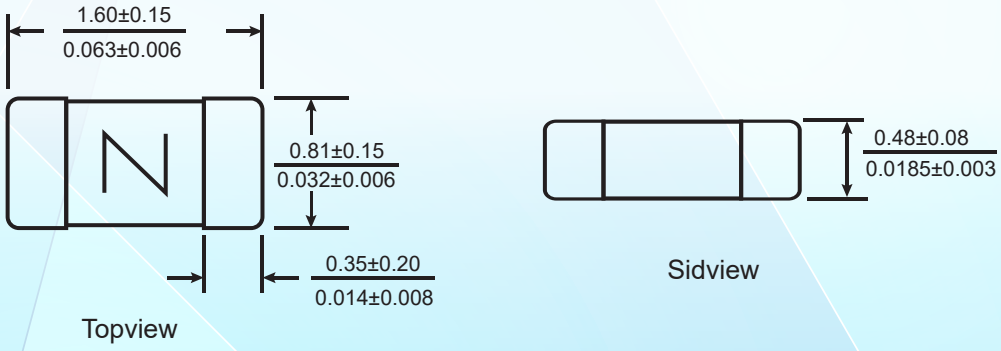
AGENCY	AGENCY FILE NUMBER
	E486200

Electrical Characteristics

Rated Current	1.0Ih	2.5Ih
250mA~8A	4 hour min	5 sec max

Dimensions

Drawing not to scale (Unit:mm/inch)



Performance Specification

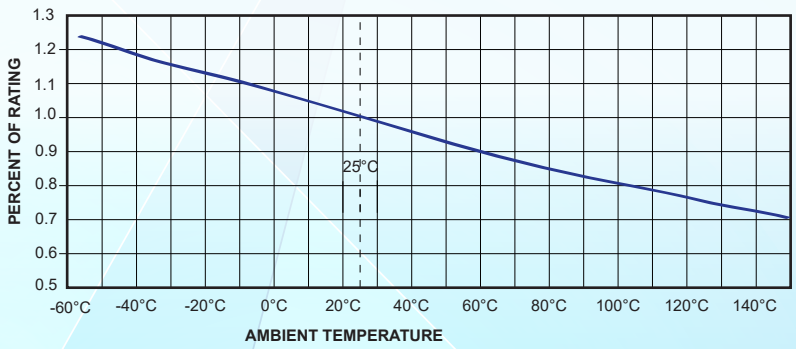
Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity*	Typical Cold. Resistance (mΩ)**	Typical Voltage Drop (mV)	Typical Pre-Arcing I^2t (A^2Sec)***	Aplha Marking
JFC0603-0250FS	63V 32V	0.250	50A	3250	893	0.00042	D
JFC0603-0375FS		0.375		1800	587	0.00093	E
JFC0603-0500FS		0.500		1070	582	0.001	F
JFC0603-0750FS		0.750		470	427	0.009	G
JFC0603-1100FS		1		250	335	0.011	B
JFC0603-1150FS		1.5		150	270	0.045	H
JFC0603-1200FS		2		78	160	0.115	K
JFC0603-1250FS		2.5		49	145	0.14	L
JFC0603-1300FS		3		35	130	0.21	O
JFC0603-1350FS	32V	3.5		28	130	0.50	R
JFC0603-1400FS		4		18	120	0.56	S
JFC0603-1500FS		5		14	110	1.2	T
JFC0603-1600FS		6		11	110	1.7	V
JFC0603-1700FS		7		9.5	80	2.3	X
JFC0603-1800FS		8		7.0	75	3.0	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

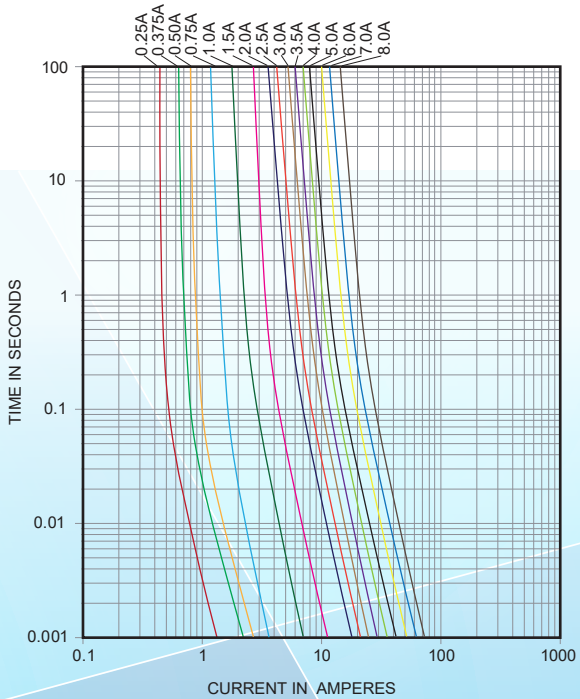
Environmental Characteristic

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

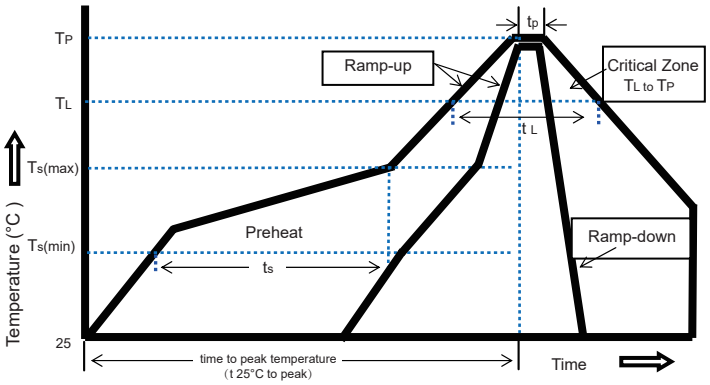
Temperature Derating Curve



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
JFC0603FS	5000 fuses/reel 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481

Part Numbering System

JF C 0603 - xxxx F S

- S=SMD
- F=Fast Acting
- 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.