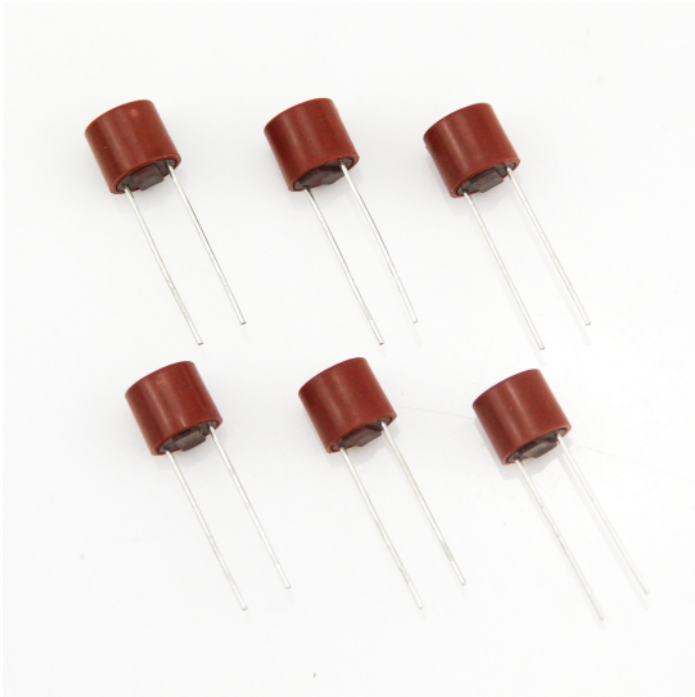


为您的产品保驾护航

PRODUCT DATASHEET

Miniature Fuse

JFR Series, Time-Lag Fuse




Description

The JFR Series are time-Lag type, 250V rated fuses, with enhanced breaking capacity designed in accordance to IEC 60127-3.

Features

- Lead-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- 100A breaking capacity
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Halogen free
- Available from 1A to 10A

Agency Approvals

Agency	File Number	Ampere Range
	PENDING	1A - 10A


Applications

- Battery Chargers
- Consumer Electronics
- Power supplies
- Industrial Controllers

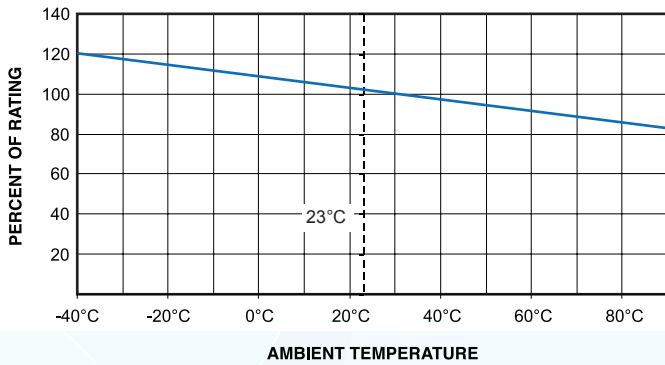
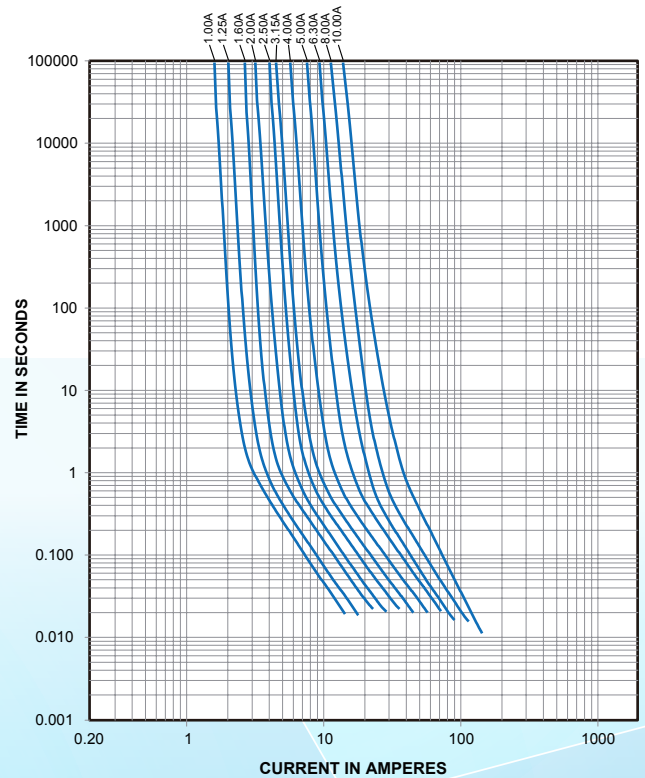
Electrical Characteristics for Series

% of Ampere	Opening Time	
	1A - 6.3A	8A - 10A
150%	1 Hour, Min.	1 Hour, Min.
210%	2 Minutes, Max.	300 s, Max.
275%	400 ms, Min. ; 10 Sec., Max.	1 s, Min. ; 20 s, Max.
400%	150 ms, Min. ; 3 Sec., Max.	150 ms, Min. ; 3 Sec., Max.
1000%	20 ms, Min. ; 150 ms, Max.	20 ms, Min. ; 150 ms, Max.

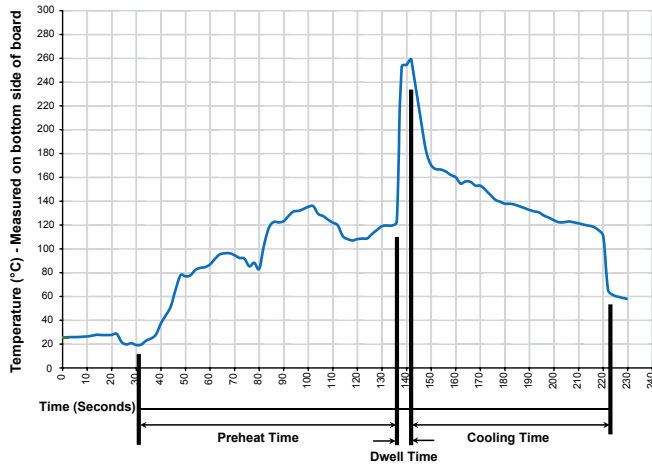
Performance Specification

Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Voltage Drop 1.0×I _N max. (mV)	Power Dissipation 1.5×I _N max. (mW)	Melting Integral 10×I _N min. (A ² s)	Agency Approvals
							
1100	1.00 A	250 V	100A/ 250VAC 50-60 Hz cos φ = 1.0	100	400	3.0	X
1125	1.25 A	250 V		95	465	4.5	X
1160	1.60 A	250 V		90	490	9.0	X
1200	2.00 A	250 V		85	670	12	X
1250	2.50 A	250 V		80	750	22	X
1315	3.15 A	250 V		75	900	32	X
1400	4.00 A	250 V		70	1200	58	X
1500	5.00 A	250 V		65	1250	90	X
1630	6.30 A	250 V		65	1400	105	X
1800	8.00 A	250 V		63	1600	180	X
2100	10.00 A	250 V	57	1600	260	X	

Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

Temperature Derating Curve

Average Time-Current Curve


Soldering Parameters



Recommended Process Parameters:

Wave Parameter

Lead-Free Recommendation

Preheat:

(Depends on Flux Activation Temperature) (Typical Industry Recommendation)

Temperature Minimum: 100° C

Temperature Maximum: 150° C

Preheat Time: 60-180 seconds

Solder Pot Temperature: 260° C Maximum

Solder Dwell Time: 2-5 seconds

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5° C

Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

Materials

Base/Cap: Brown Thermoplastic
 Polyamide PA 6.6, UL 94 V-0
 Round Pins: Copper, Tin-plated

Lead Pull Strength

10 N (EN 60068-2-21)

Solderability

260°C, ≤ 3s. (Wave)
 350°C, ≤ 1s. (Soldering Iron)

Soldering Heat

260°C, 10s. (IEC 60068-2-20)

Resistance

350°C, 3s. (Soldering Iron)

Operating Temperature

-40°C to +85°C (consider de-rating)

Climatic Category

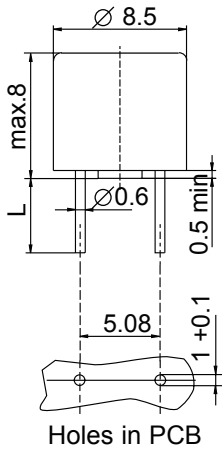
-40°C to +85°C /21 days
 (EN 60068-1,-2-1,-2-2,-2-78)

Stock Conditions

+10°C to +60°C
 RH ≤ 75% yearly average, without dew, maximum value for 30 days-95%
 24 cycles at 15 min. each(EN 60068-2-6)

Vibration Resistance

10 - 60 Hz at 0.75 mm amplitude
 60 - 2000 Hz at 10 g acceleration

Dimensions


Long Leads (L=18.8mm)
 Short Leads (L=4.3mm)

Product Identification

JFR **xxxx** **T** **R**

Suffix

T=time-Lag
 R=Radial Leded

AMP Code

Refer to Amp Code column
 of Electrical Characteristics
 Table

Series

JF=JDT Fuse
 R=Round

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Quantity & Packaging Code
JFR Series				
Tape & Ammopack	N/A	1,000	N/A	N/A