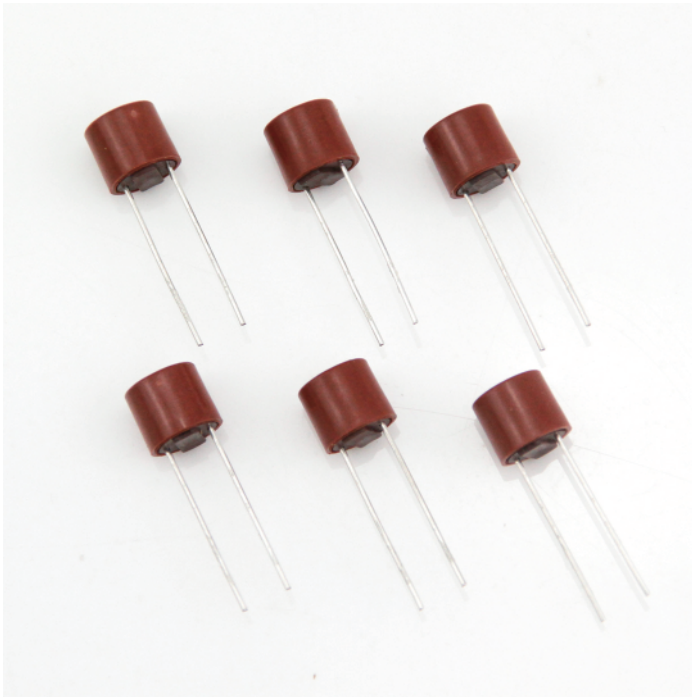


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PRODUCT DATASHEET

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

Agency Approvals

Agency	File Number	Ampere Range
	Pending	250mA - 10A

Applications

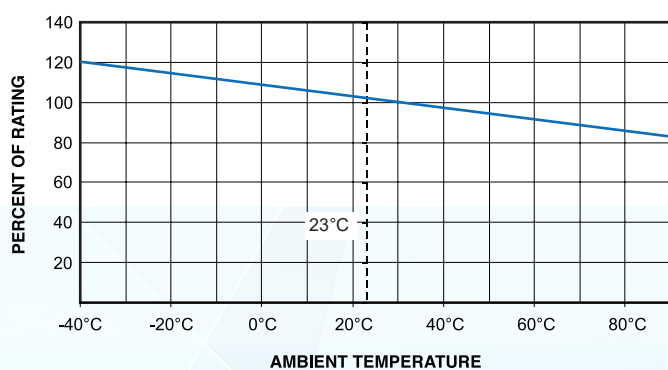
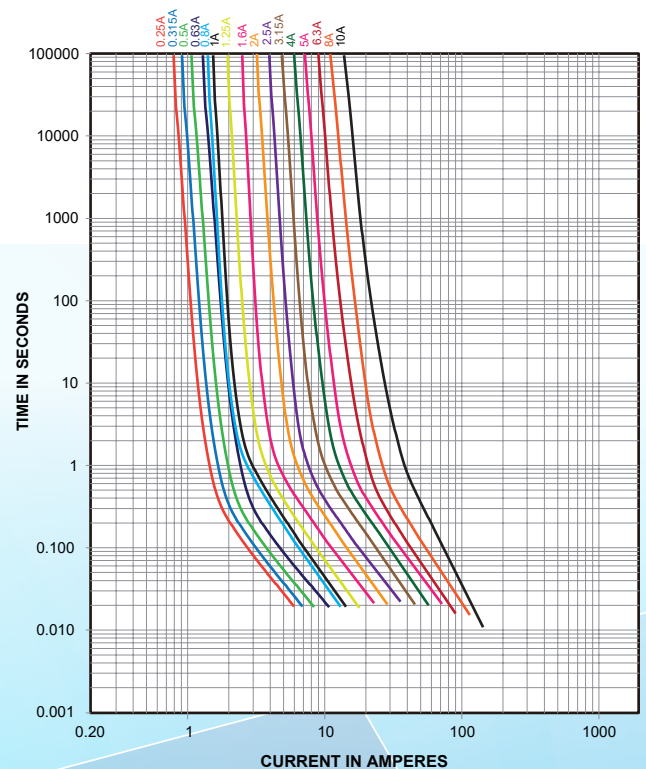
- Battery Chargers
- Consumer Electronics
- Power supplies
- Industrial Controllers

Electrical Characteristics for Series

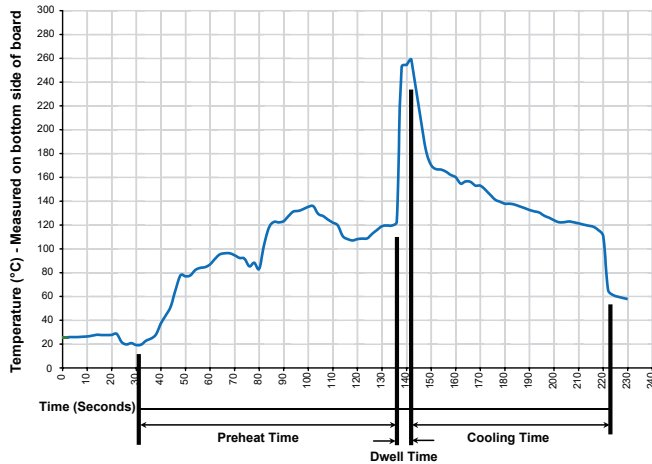
Rated Current	1.5 In	2.1 In	2.75 In	4 In	10 In
250mA~6.3A	1 hour min.	120s max.	400ms~10s	150ms~3s	20ms~150ms
8A~10A		300s max.	1s~20s		

Performance Specification

Amp Code	Rated Current (A)	Voltage Rating (V)	Breaking Capacity	Voltage Drop $1.0 \times I_N$ max. (mV)	Power Dissipation $1.5 \times I_N$ max. (mW)	Melting Integral $10 \times I_N$ min. (A ² s)
JFR0250TR	0.25	250	100A@250VAC	126	293	0.32
JFR0315TR	0.315	250	100A@250VAC	117	297	0.43
JFR0500TR	0.50	250	100A@250VAC	110	305	0.5
JFR0630TR	0.63	250	100A@250VAC	107	320	1.2
JFR0800TR	0.80	250	35A@250VAC	104	360	2.6
JFR1100TR	1.00	250	100A@250VAC	100	400	3.0
JFR1125TR	1.25	250	100A@250VAC	95	465	4.5
JFR1160TR	1.60	250	100A@250VAC	90	490	9.0
JFR1200TR	2.00	250	100A@250VAC	85	670	12
JFR1250TR	2.50	250	100A@250VAC	80	750	22
JFR1315TR	3.15	250	100A@250VAC	75	900	32
JFR1400TR	4.00	250	100A@250VAC	70	1200	58
JFR1500TR	5.00	250	100A@250VAC	65	1250	90
JFR1630TR	6.30	250	100A@250VAC	65	1400	105
JFR1800TR	8.00	250	100A@250VAC	63	1600	180
JFR2100TR	10.00	250	100A@250VAC	57	1600	260

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

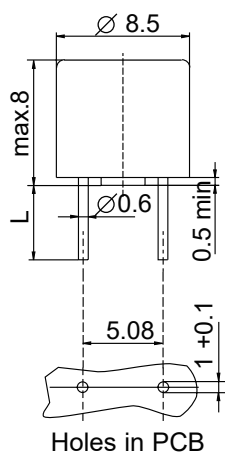
Heating Time: 5 seconds max.

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 Resistance	260°C, 10s. (IEC 60068-2-20) 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	0000	N/A