

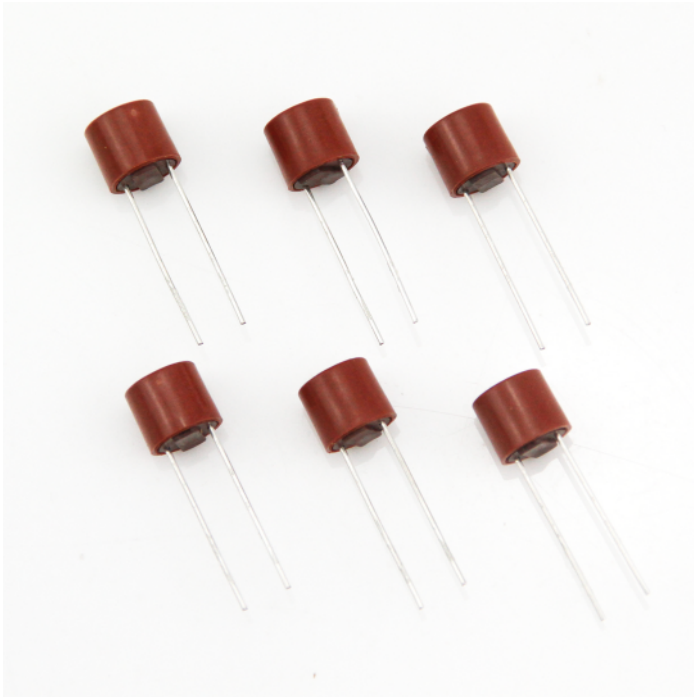


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PRODUCT DATASHEET

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

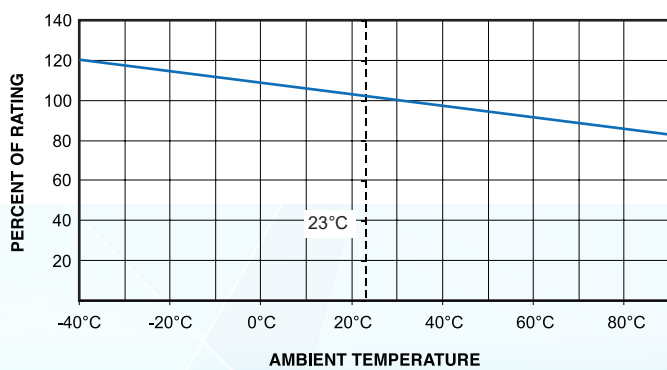
% of Ampere	Opening Time	
	250mA - 6.3A	8A - 10A
150%	1 Hour, Min.	1 Hour, Min.
210%	2 Minutes, Max.	300 s, Max.
275%	400 ms, Min. 10 Sec., Max.	1 s, Min. 20 s, Max.
400%	150 ms, Min. 3 Sec., Max.	150 ms, Min. 3 Sec., Max.
1000%	20 ms, Min. 150 ms, Max.	20 ms, Min. 150 ms, Max.

Performance Specification

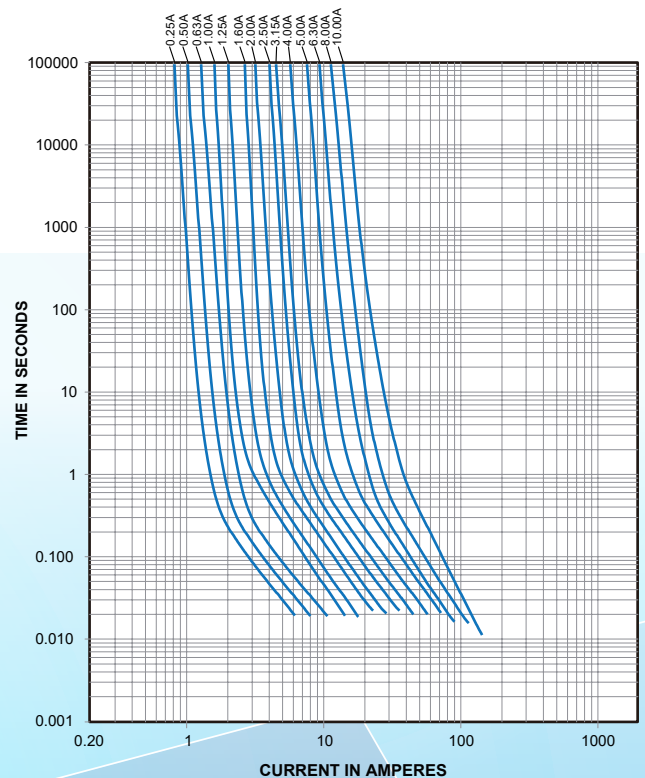
Amp Code	Rated Current(A)	Voltage Rating(V)	Breaking Capacity	Voltage Drop 1.0×I _N max. (mV)	Power Dissipation 1.5×I _N max. (mW)	MeltingIntegral 10×I _N min. (A ² s)
0250	0.25	250	100A/250VAC 50-60 Hz cos φ = 1.0	126	293	0.32
0500	0.50	250		110	305	0.5
0630	0.63	250		107	320	1.2
1100	1.00	250		100	400	3.0
1125	1.25	250		95	465	4.5
1160	1.60	250		90	490	9.0
1200	2.00	250		85	670	12
1250	2.50	250		80	750	22
1315	3.15	250		75	900	32
1400	4.00	250		70	1200	58
1500	5.00	250		65	1250	90
1630	6.30	250		65	1400	105
1800	8.00	250		63	1600	180
2100	10.00	250		57	1600	260

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

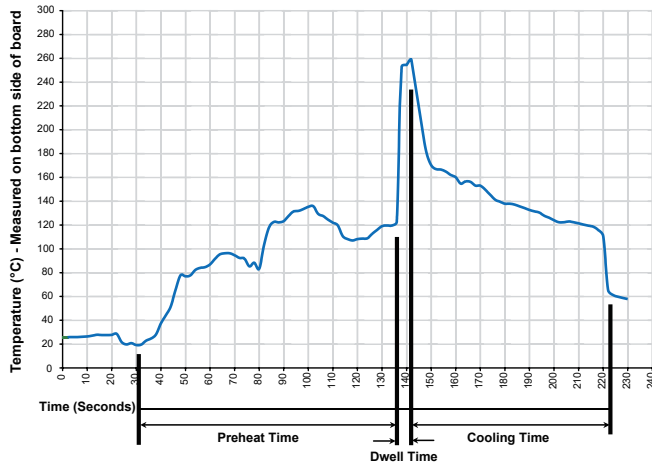
Temperature Derating Curve



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

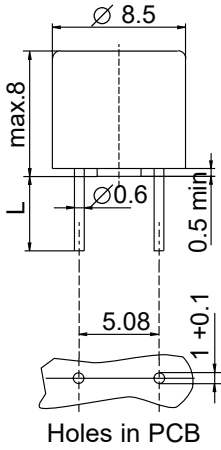
Heating Time: 5 seconds max.

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 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