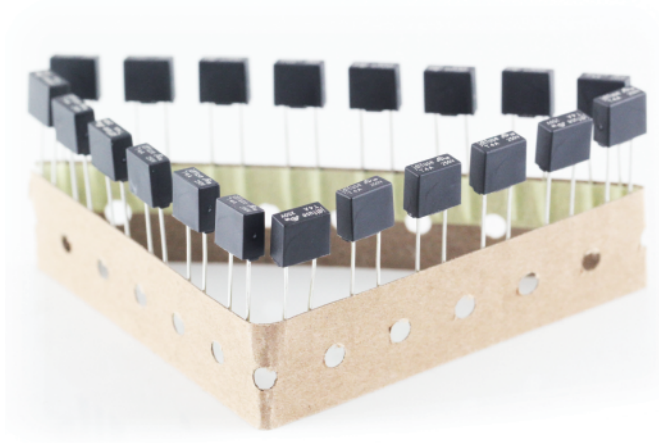


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PRODUCT DATASHEET

Miniature Fuse

JFS Series, Time-Lag Fuse



Description

JFS series is Time-Lag type, 250V rated, designed in accordance to IEC 60127-3. This product is suitable for various kinds of electronic machines to work for over current protection.

Features

- One time positive disconnect
- Time-Lag for excessive current
- Shock safe casing
- Vibration resistant
- Direct solderable or plug-in versions
- Conflict free metals
- RoHS compliant and Halogen free material
- Operating temperature:- 40 °C to +125 °C

Agency Approvals

AGENCY	AGENCY FILE NUMBER
	J50678260
	E486200

Applications

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

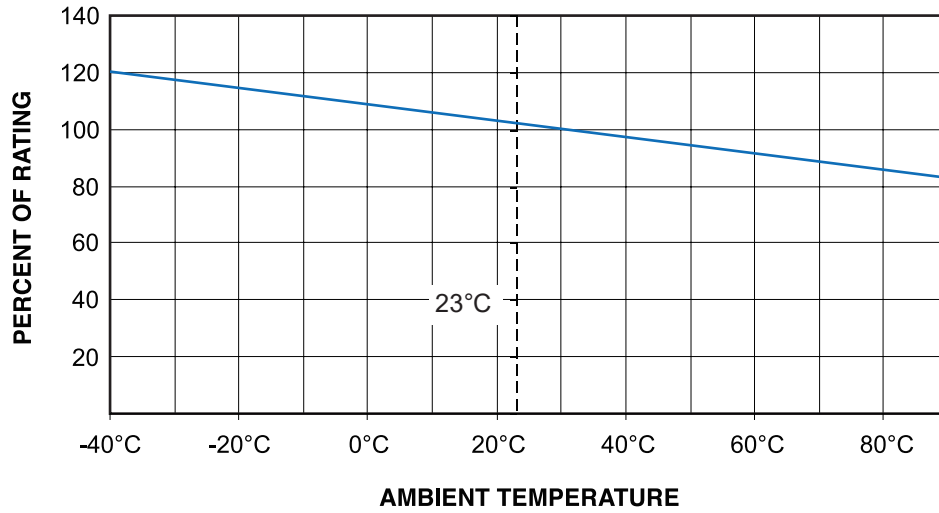
Electrical Characteristics

% of Ampere Rating	Opening Time
210%	2 min Max.
275%	400 ms~10 s
400%	150 ms~3 s
1000%	20 ms~150 ms,

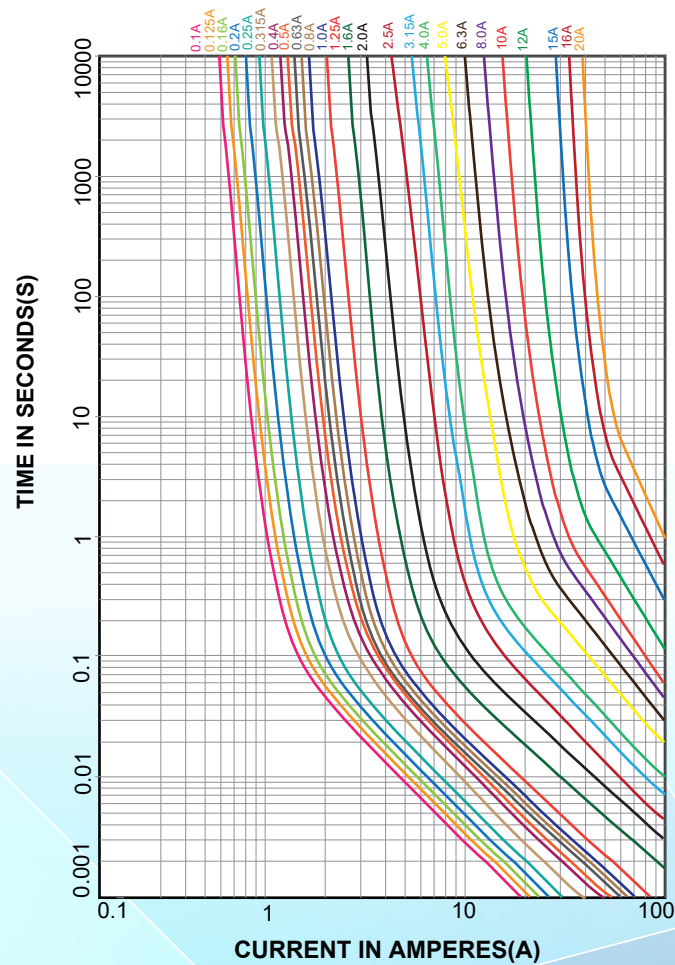
Performance Specification

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)	Nominal Cold Resistance (Ohms)
JFS0100TR	0.10	250	100A/250 VAC	400	93	0.0061	4.50
JFS0125TR	0.125	250	100A/250 VAC	385	106	0.008	3.80
JFS0160TR	0.16	250	100A/250 VAC	350	132	0.013	2.60
JFS0200TR	0.20	250	100A/250 VAC	325	158	0.024	1.20
JFS0250TR	0.25	250	25A/250 VAC	260	180	0.036	0.2047
JFS0315TR	0.315	250	25A/250 VAC	210	205	0.047	0.1836
JFS0400TR	0.40	250	25A/250 VAC	190	220	0.065	0.1625
JFS0500TR	0.50	250	25A/250 VAC	170	240	0.083	0.1453
JFS0630TR	0.63	250	25A/250 VAC	150	260	0.119	0.1240
JFS0800TR	0.80	250	25A/250 VAC	110	280	3.80	0.0960
JFS1100TR	1.00	250	25A/250 VAC	115	400	5.80	0.0715
JFS1125TR	1.25	250	25A/250 VAC	100	500	9.75	0.0569
JFS1160TR	1.60	250	25A/250 VAC	95	600	13.5	0.0400
JFS1200TR	2.00	250	25A/250 VAC	90	700	21	0.0298
JFS1250TR	2.50	250	25A/250 VAC	85	750	32	0.0240
JFS1315TR	3.15	250	32A/250 VAC	80	1100	55	0.0170
JFS1400TR	4.00	250	40A/250 VAC	75	1200	100	0.0128
JFS1500TR	5.00	250	50A/250 VAC	70	1000	90	0.0101
JFS1630TR	6.30	250	63A/250 VAC	65	1200	126	0.0077
JFS1800TR	8.00	250	80A/250 VAC	40	1500	150	0.0051
JFS2100TR	10.0	250	100A/250 VAC	35	2000	205	0.0048
JFS2120TR	12.0	250	100A/250 VAC	30	2300	218	0.0040
JFS2150TR	15.0	250	100A/250 VAC	25	2500	226	0.0035
JFS2160TR	16.0	250	100A/250 VAC	18	2650	243	0.0028
JFS2200TR	20.0	250	100A/250 VAC	20	2700	268	0.0021

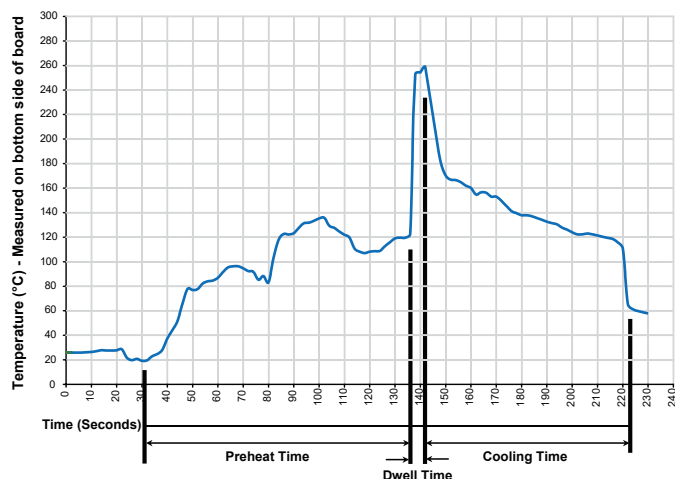
Temperature Derating Curve



Time-Current Characteristics



Soldering Parameters



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Min.	100° C
Temperature Max.	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.

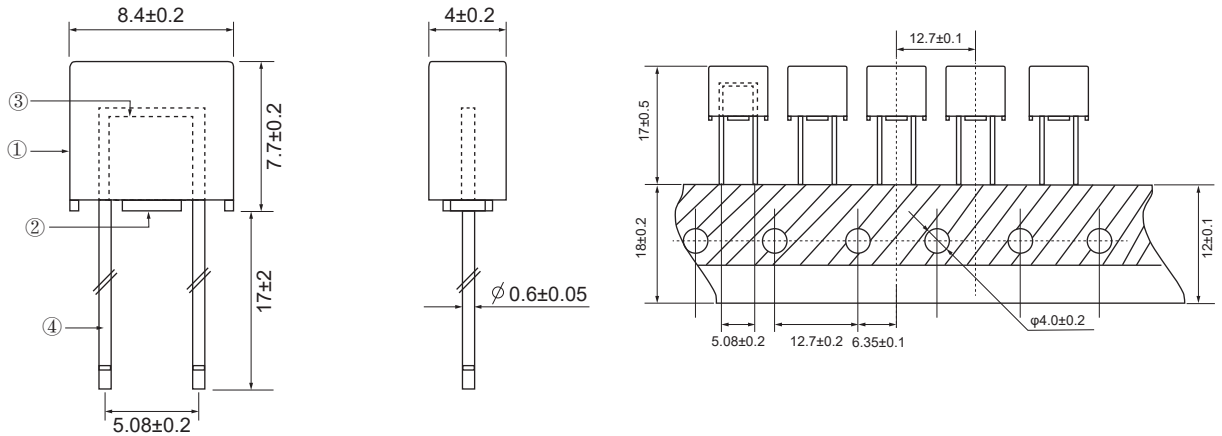
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

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 +125°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%
Vibration Resistance	24 cycles at 15 min. each(EN 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude; 60 - 2000 Hz at 10 g acceleration * Internal test conditions from thermal cycling at 125°C

Dimensions

Unit: mm



Material Details

No.	Part Name	Material
①	Case	Thermoplastic Nylon
②	Base	Thermoplastic Nylon
③	Fuse element	Alloy
④	Lead wire	Tinned copper wire
⑤	Solder	Solder wire(Sn:99.3%;Cu:0.7%)

Part Number System

JFS 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
S=Square

Packaging

Packaging Option	Quantity/Packaging Code
Tape	1,400 pcs/tape
Bag	1,000 pcs/bag