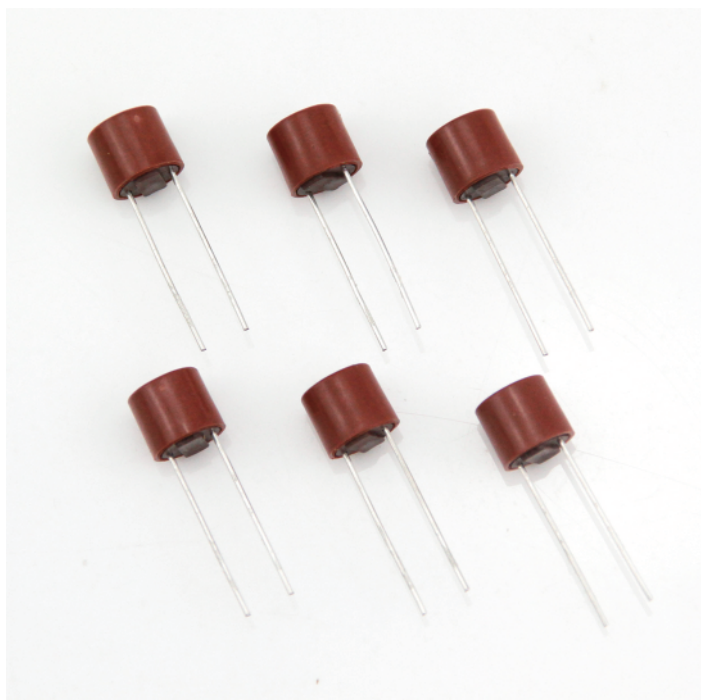


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PRODUCT DATASHEET

Miniature Fuse

## 372J Series, Time-Lag Fuse



### Description

The 372J 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 Elec. Jonics
- Power supplies
- Indus. Jial Con. Jollers

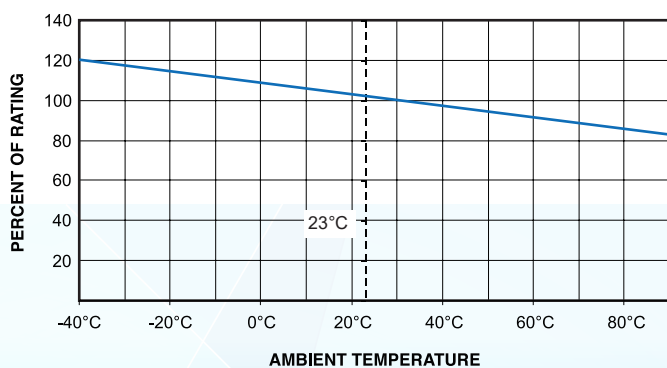
### Elec. Jical Characteristics for Series

| 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    |          |            |

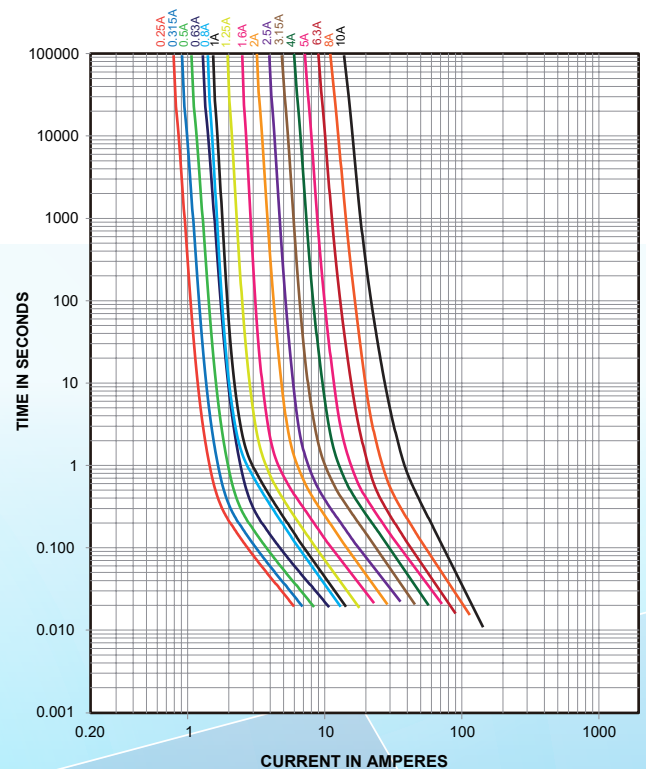
### Performance Specification

| 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 <sup>2</sup> s) |
|-----------|-------------------|--------------------|-------------------|-----------------------------------------|----------------------------------------------|----------------------------------------------------------|
| 3720250.J | 0.25              | 250                | 100A@250VAC       | 126                                     | 293                                          | 0.32                                                     |
| 3720315.J | 0.315             | 250                | 100A@250VAC       | 117                                     | 297                                          | 0.43                                                     |
| 3720500.J | 0.50              | 250                | 100A@250VAC       | 110                                     | 305                                          | 0.5                                                      |
| 3720630.J | 0.63              | 250                | 100A@250VAC       | 107                                     | 320                                          | 1.2                                                      |
| 3720800.J | 0.80              | 250                | 35A@250VAC        | 104                                     | 360                                          | 2.6                                                      |
| 3721100.J | 1.00              | 250                | 100A@250VAC       | 100                                     | 400                                          | 3.0                                                      |
| 3721125.J | 1.25              | 250                | 100A@250VAC       | 95                                      | 465                                          | 4.5                                                      |
| 3721160.J | 1.60              | 250                | 100A@250VAC       | 90                                      | 490                                          | 9.0                                                      |
| 3721200.J | 2.00              | 250                | 100A@250VAC       | 85                                      | 670                                          | 12                                                       |
| 3721250.J | 2.50              | 250                | 100A@250VAC       | 80                                      | 750                                          | 22                                                       |
| 3721315.J | 3.15              | 250                | 100A@250VAC       | 75                                      | 900                                          | 32                                                       |
| 3721400.J | 4.00              | 250                | 100A@250VAC       | 70                                      | 1200                                         | 58                                                       |
| 3721500.J | 5.00              | 250                | 100A@250VAC       | 65                                      | 1250                                         | 90                                                       |
| 3721630.J | 6.30              | 250                | 100A@250VAC       | 65                                      | 1400                                         | 105                                                      |
| 3721800.J | 8.00              | 250                | 100A@250VAC       | 63                                      | 1600                                         | 180                                                      |
| 3722100.J | 10.00             | 250                | 100A@250VAC       | 57                                      | 1600                                         | 260                                                      |

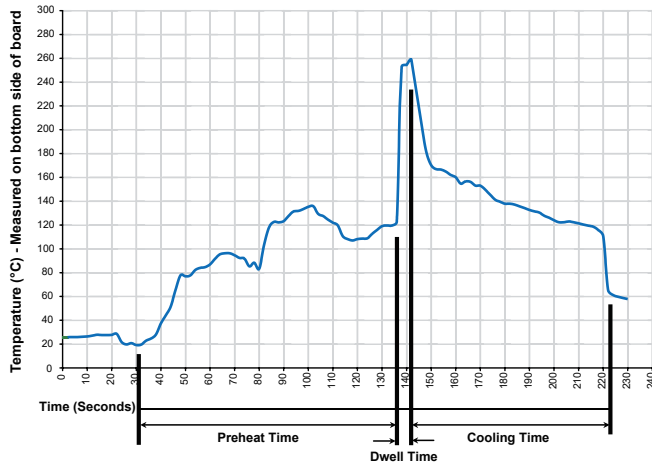
### Temperature Derating Curve



### Average Time-Current Curve



### Soldering Parameters



Recommended Process Parameters:

| Wave Parameter                                                                                | Lead-Free Recommendation |
|-----------------------------------------------------------------------------------------------|--------------------------|
| <b>Preheat:</b><br>(Depends on Flux Activation Temperature) (Typical Indus.Jy 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

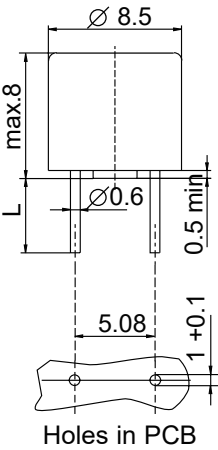
Heating Time: 5 seconds max.

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

### Product Characteristics

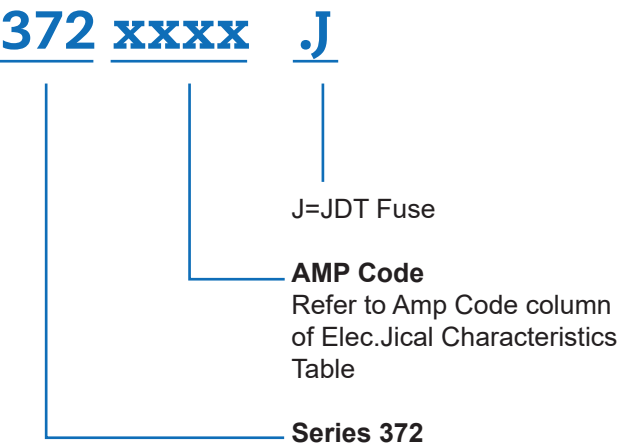
|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials</b>                 | Base/Cap: Brown Thermoplastic<br>Polyamide PA 6.6, UL 94 V-0<br>Round Pins: Copper, Tin-plated                                   |
| <b>Lead Pull S.Length</b>        | 10 N (EN 60068-2-21)                                                                                                             |
| <b>Solderability</b>             | 260°C, ≤ 3s. (Wave)<br>350°C, ≤ 1s. (Soldering Iron)                                                                             |
| <b>Soldering Heat Resistance</b> | 260°C, 10s. (IEC 60068-2-20)<br>350°C, 3s. (Soldering Iron)                                                                      |
| <b>Operating Temperature</b>     | -40°C to +85°C (consider de-rating)                                                                                              |
| <b>Climatic Category</b>         | -40°C to +85°C /21 days<br>(EN 60068-1,-2-1,-2-2,-2-78)                                                                          |
| <b>Stock Conditions</b>          | +10°C to +60°C<br>RH ≤ 75% yearly average, without dew, maximum value for 30 days—95%<br>24 cycles at 15 min. each(EN 60068-2-6) |
| <b>Vibration Resistance</b>      | 10 - 60 Hz at 0.75 mm amplitude<br>60 - 2000 Hz at 10 g acceleration                                                             |

Dimensions



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

Product Identification



Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Quantity & Packaging Code |
|------------------|-------------------------|----------|---------------------------|---------------------------|
| 372J Series      |                         |          |                           |                           |
| Tape & Ammopack  | N/A                     | 1,000    | 0000                      | N/A                       |