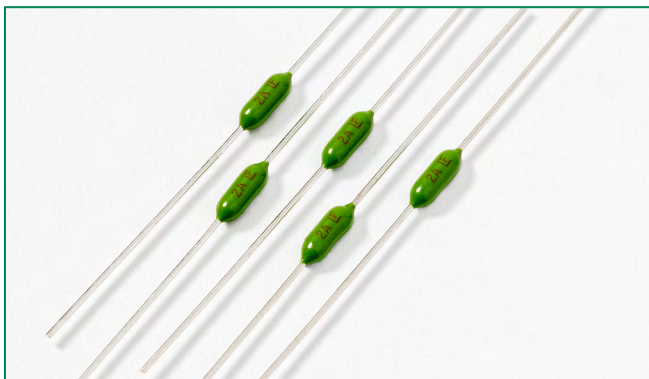


### 472 Series, PICO® II Time-Lag Fuse



#### Agency Approvals

| Agency                                                                            | Agency File Number | Ampere Range |
|-----------------------------------------------------------------------------------|--------------------|--------------|
|  | E10480             | 0. 50A - 5A  |

#### Additional Information



Datasheet



Resources



Samples

#### Description

The 472 Series PICO® II, 125V rated Slo-Blo® Fuse is designed for applications that require moderate in-rush withstand and is in a space-saving subminiature package.

#### Features

- Moderate in-rush withstand
- Small size
- Wide range of current ratings available (0. 50A to 5A)
- RoHS compliant and Halogen-free
- Wide operating temperature range
- Low temperature rating

#### Applications

- Flat-panel display TV
- Lighting
- Game Console
- Power Supply
- Audio/Video Equipment

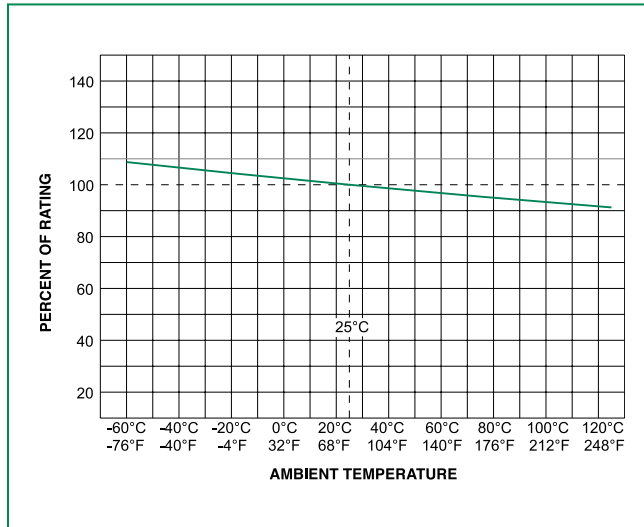
#### Electrical Characteristics

| % of Ampere Rating | Opening Time             |
|--------------------|--------------------------|
| 100%               | 4 Hours, <b>Min.</b>     |
| 200%               | 120 Seconds, <b>Max.</b> |

#### Electrical Characteristics

| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals                                                                        |
|-------------------|----------|------------------------|---------------------|--------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------|
| .500              | .500     | 125                    | 50A@125VAC/DC       | 0.1745                         | 0.1927                                                |  x |
| 1.00              | 001.     | 125                    |                     | 0.0785                         | 0.9384                                                | x                                                                                       |
| 1.50              | 01.5     | 125                    |                     | 0.0392                         | 2.4081                                                | x                                                                                       |
| 2.00              | 002.     | 125                    |                     | 0.0271                         | 4.2363                                                | x                                                                                       |
| 2.50              | 02.5     | 125                    |                     | 0.0209                         | 7.0838                                                | x                                                                                       |
| 3.00              | 003.     | 125                    |                     | 0.0187                         | 9.3600                                                | x                                                                                       |
| 5.00              | 005.     | 125                    |                     | 0.0084                         | 45.9000                                               | x                                                                                       |

### Temperature Re-rating Curve



Note:  
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Soldering Parameters

#### Recommended Process Parameters:

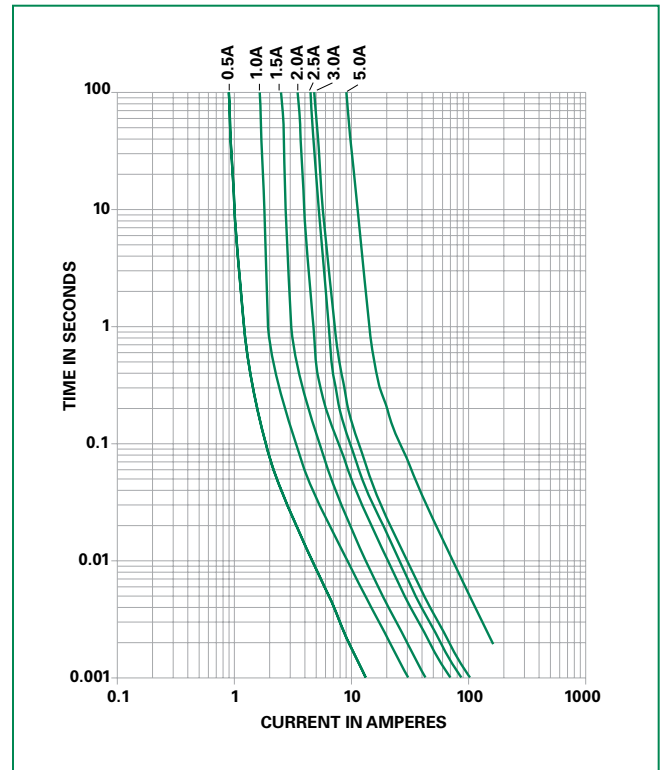
| Wave Parameter                                              | Lead-Free Recommendation          |
|-------------------------------------------------------------|-----------------------------------|
| <b>Preheat:</b><br>(Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum:                                        | 100°C                             |
| Temperature Maximum:                                        | 150°C                             |
| Preheat Time:                                               | 60-180 seconds                    |
| <b>Solder Pot Temperature:</b>                              | 260°C Maximum                     |
| <b>Solder Dwell Time:</b>                                   | 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.

### Average Time Current Curves

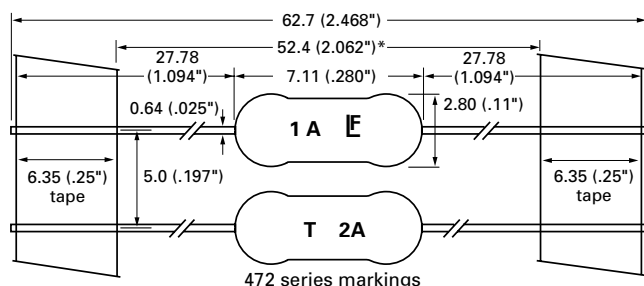


## Product Characteristics

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| <b>Material</b>        | Body: Ceramic<br>Leads: Tin-coated Copper<br>Encapsulated: Epoxy-Coated Body       |
| <b>Product Marking</b> | Body: Brand Logo, Current Rating,<br>T (time Lag fuse)                             |
| <b>Solderability</b>   | MIL-STD-202, Method 208                                                            |
| <b>Lead Pull Force</b> | MIL-STD-202, Method 211, Test Condition A (will Withstand a 7lbs. Axial pull test) |

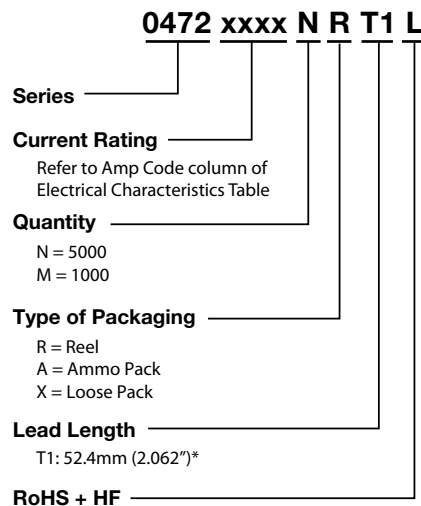
|                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -55°C to +125°C with proper de-rating                                                        |
| <b>Thermal Shock</b>         | MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)                  |
| <b>Vibration</b>             | MIL-STD-202, Method 201 (10-55 Hz); Method 204, Test Condition C (55-2000 Hz at 10 G's Peak) |

## Dimensions



Coating Diameter (max): 0.5A-3.0A: 2.80mm  
5.0A: 2.90mm

## Part Numbering System



## Packaging

| Packaging Option                       | Packaging Specification | Quantity | Quantity & Packaging Code                             |
|----------------------------------------|-------------------------|----------|-------------------------------------------------------|
| *T1: 52.4mm (2.062'')<br>Tape and Reel | EIA 296                 |          | Refer to the tables in<br>Part Numbering System above |

Notes: \* T1 dimension is defined as the length of the component between the two tapes. The full component length is 62.7mm (2.468'').