

### 473 Series, PICO® II Slo-Blo® Fuse



#### Agency Approvals

| Agency                                                                            | Agency File Number | Ampere Range |
|-----------------------------------------------------------------------------------|--------------------|--------------|
|  | E10480             | 0.375A - 7A  |
|  | 29862              | 0.375A - 7A  |
|  | NBK200416-JP1021   | 1A - 5A      |

#### Additional Information



Datasheet



Resources



Samples

#### Description

The PICO® II Slo-Blo® Fuse combines time-delay performance characteristics with the proven reliability of a PICO® Fuse.

#### Features

- Enhanced inrush withstand
- Small size
- Wide range of current ratings (0.375A - 7A)
- Halogen free and RoHS compliant
- Wide operating temperature range
- Low temperature derating

#### Applications

- Flat-panel Display TV
- LCD monitor
- Lighting system
- Medical equipment
- Industrial equipment

#### Electrical Characteristics

| % of Ampere Rating | Opening Time                                    |
|--------------------|-------------------------------------------------|
| 100%               | 4 Hours, <b>Min.</b>                            |
| 200%               | 1 Sec., <b>Min.</b> ; 60 Sec., <b>Max.</b>      |
| 300%               | 0.2 Sec., <b>Min.</b> ; 3 Sec., <b>Max.</b>     |
| 800%               | 0.002 Sec., <b>Min.</b> ; 0.1 Sec., <b>Max.</b> |

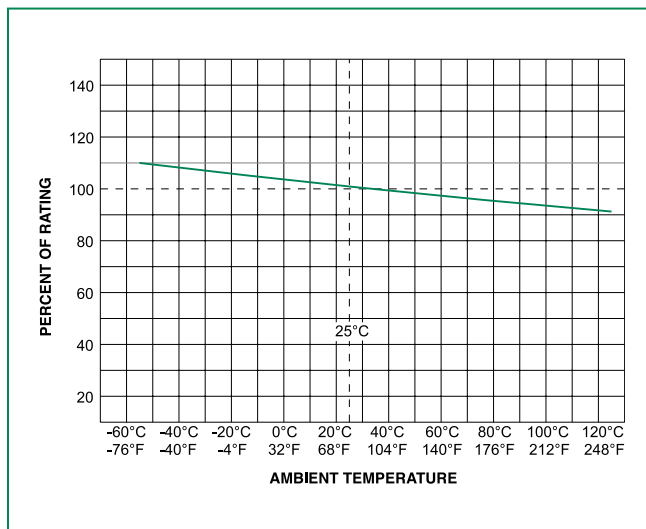
#### Electrical Characteristics

| 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) | Nom Voltage Drop (mV) | Agency Approvals                                                                      |                                                                                       |                                                                                       |
|-------------------|----------|------------------------|---------------------|--------------------------------|-------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                   |          |                        |                     |                                |                                                       |                       |  |  |  |
| 0.375             | .375     | 125                    | 50A@125VAC/DC       | 1.7550                         | 0.085                                                 | 0.840                 | X                                                                                     | X                                                                                     |                                                                                       |
| 0.500             | .500     | 125                    |                     | 1.1370                         | 0.210                                                 | 0.775                 | X                                                                                     | X                                                                                     |                                                                                       |
| 0.750             | .750     | 125                    |                     | 0.4900                         | 0.760                                                 | 0.429                 | X                                                                                     | X                                                                                     |                                                                                       |
| 1.00              | 001.     | 125                    |                     | 0.3000                         | 2.010                                                 | 0.353                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 1.50              | 01.5     | 125                    |                     | 0.1170                         | 3.940                                                 | 0.208                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 2.00              | 002.     | 125                    |                     | 0.0720                         | 7.600                                                 | 0.180                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 2.25              | 2.25     | 125                    |                     | 0.0640                         | 9.280                                                 | 0.164                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 2.50              | 02.5     | 125                    |                     | 0.0520                         | 13.00                                                 | 0.153                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 3.00              | 003.     | 125                    |                     | 0.0380                         | 21.00                                                 | 0.140                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 3.50              | 03.5     | 125                    |                     | 0.0240                         | 26.80                                                 | 0.094                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 4.00              | 004.     | 125                    |                     | 0.0200                         | 35.00                                                 | 0.086                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 5.00              | 005.     | 125                    |                     | 0.0133                         | 54.80                                                 | 0.074                 | X                                                                                     | X                                                                                     | X                                                                                     |
| 7.00              | 007.     | 125                    |                     | 0.0092                         | 105.00                                                | 0.070                 | X                                                                                     | X                                                                                     |                                                                                       |

# Axial Lead & Cartridge Fuses

PICO® II > Slo-Blo® Fuse > 473 Series

## 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:

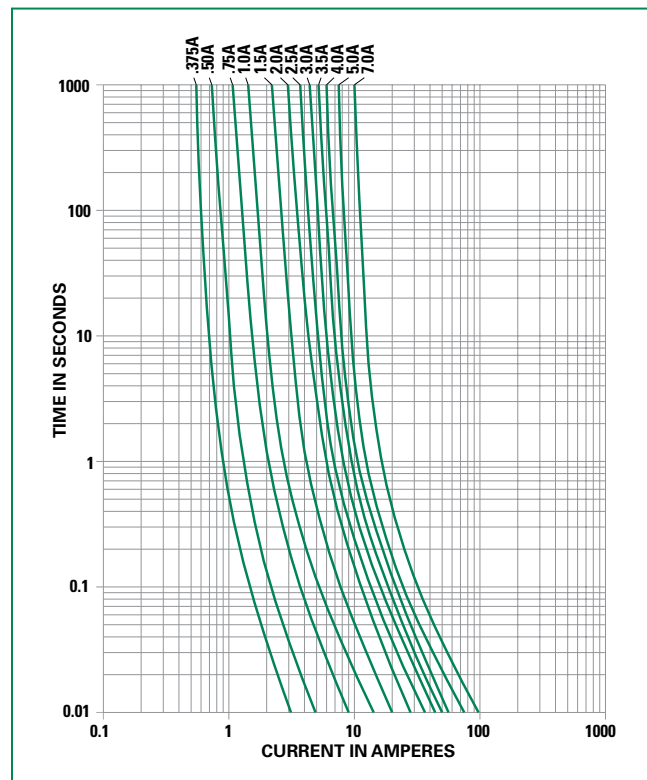
| Wave Parameter                                       | Lead-Free Recommendation          |
|------------------------------------------------------|-----------------------------------|
| Preheat:<br>(Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum:                                 | 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.

## Average Time Current Curves

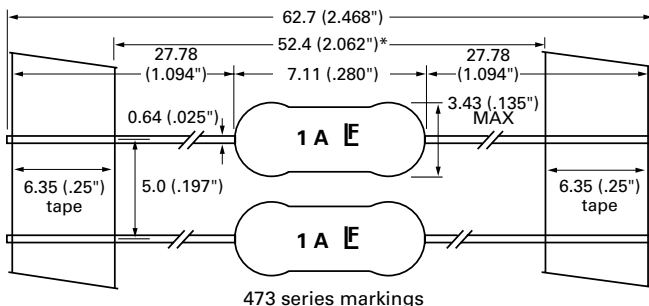


### Product Characteristics

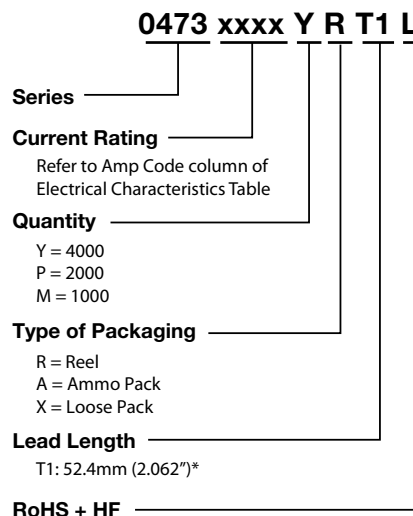
|                                  |                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials</b>                 | Encapsulated, Epoxy-Coated Body;<br>Solder Coated Copper wire leads;<br>RoHS compliant Product: Pure Tin-coated<br>Copper wire leads |
| <b>Solderability</b>             | MIL-STD-202, Method 208                                                                                                              |
| <b>Lead Pull Force</b>           | MIL-STD-202, Method 211, Test Condition<br>A (will withstand 7 lbs. axial pull test)                                                 |
| <b>Operating<br/>Temperature</b> | -60°C to +125°C (Consider re-rating)                                                                                                 |
| <b>Shock</b>                     | MIL-STD-202, Method 213, Test Condition<br>I (100 G's peak for 6 milliseconds)                                                       |

|                                                   |                                                                                                                    |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Vibration</b>                                  | MIL-STD-202, Method 201 (10–55<br>Hz); MIL-STD-202, Method 204, Test<br>Condition C (55–2000 Hz at 10 G's<br>Peak) |
| <b>Salt Spray</b>                                 | MIL-STD-202, Method 101, Test<br>Condition B                                                                       |
| <b>Insulation Resistance<br/>(After Opening):</b> | MIL-STD-202, Method 302, (10,000<br>ohms minimum at 100 volts)                                                     |
| <b>Resistance to Soldering<br/>Heat</b>           | MIL-STD-202, Method 210, Test<br>Condition C (20 sec at 260°C)                                                     |
| <b>Thermal Shock</b>                              | MIL-STD-202, Method 107, Test<br>Condition B (-65°C to 125°C)                                                      |
| <b>Moisture Resistance</b>                        | MIL-STD-202, Method 106 (90–98%<br>RH), Heat (65°C)                                                                |

### Dimensions



### Part Numbering System



### Packaging

| Packaging Option                    | Packaging Specification | Quantity & Packaging Code                                                |
|-------------------------------------|-------------------------|--------------------------------------------------------------------------|
| *T1: 52.4mm (2.062\") Tape and Reel | EIA 296                 | Please refer to available quantities above<br>in "Part Numbering System" |

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

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