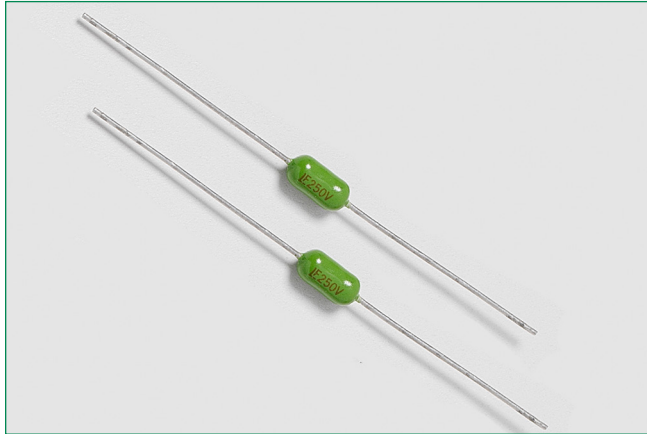


# 263 Series

## PICO® II 250 Volt Fuse, Very Fast Acting



### Description

The PICO® II 263 Series Fuse is a specially designed axial leaded fuse that achieves a 250V rating in a small package.

### Features & Benefits

- 250V rating
- Very fast-acting
- Small size
- Wide range of current rating available (62mA to 5A)
- RoHS compliant and Halogen-free
- Wide operating temperature range
- Low temperature derating

### Additional Information



Resources



Accessories



Samples

### Applications

- Lighting system
- Power supply
- LCD/PDP TV
- LCD monitor
- Office automation machines
- Audio/Video system
- Medical equipment

### Electrical Characteristics

| % of Ampere Rating | Opening Time            |
|--------------------|-------------------------|
| 100%               | 4 Hours, <b>Min.</b>    |
| 200%               | 1 Second, <b>Max.</b>   |
| 300%               | 0.1 Second, <b>Max.</b> |

### Agency Approvals

| Agency | Agency File Number   | Ampere Range |
|--------|----------------------|--------------|
|        | E10480               | 0.062A - 5A  |
|        | PSE_NBK200416-JP1021 | 1A - 5A      |
|        | 29862                | 0.125 - 5A   |
|        | NA                   | 0.062A - 5A  |
|        | NA                   | 0.062A - 5A  |

### Electrical Characteristics

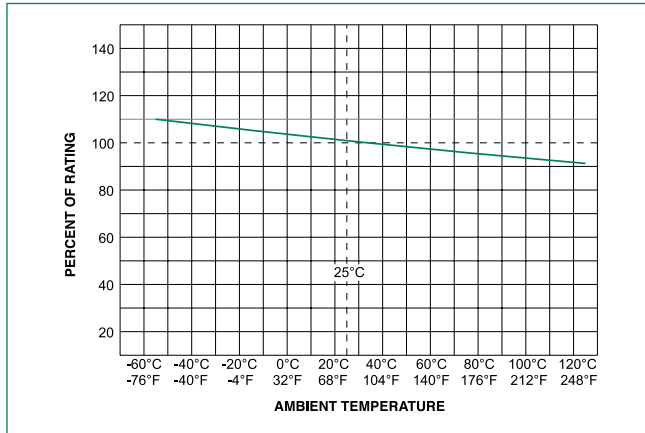
| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating            | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Nom Voltage Drop (mV) | Agency Approvals |    |    |     |    |
|-------------------|----------|------------------------|--------------------------------|--------------------------------|-------------------------------------------------------|-----------------------|------------------|----|----|-----|----|
|                   |          |                        |                                |                                |                                                       |                       | UKCA             | CE | UL | PSE | SP |
| 0.062             | .062     | 250                    | 50A@250VAC<br>PSE: 100A@125VAC | 5.50                           | 0.000192                                              | 0.74                  | x                | x  | x  | -   | -  |
| 0.125             | .125     | 250                    |                                | 1.745                          | 0.00251                                               | 0.3                   | x                | x  | x  | -   | x  |
| 0.250             | .250     | 250                    |                                | 0.715                          | 0.0165                                                | 0.235                 | x                | x  | x  | -   | x  |
| 0.375             | .375     | 250                    |                                | 0.391                          | 0.0444                                                | 0.195                 | x                | x  | x  | -   | x  |
| 0.500             | .500     | 250                    |                                | 0.252                          | 0.084                                                 | 0.302                 | x                | x  | x  | -   | x  |
| 0.750             | .750     | 250                    |                                | 0.150                          | 0.0411                                                | 0.176                 | x                | x  | x  | -   | x  |
| 1.00              | 001.     | 250*                   |                                | 0.105                          | 0.087                                                 | 0.165                 | x                | x  | x  | x   | x  |
| 1.50              | 015.     | 250*                   |                                | 0.0635                         | 0.2958                                                | 0.148                 | x                | x  | x  | x   | x  |
| 2.00              | 002.     | 250*                   |                                | 0.0444                         | 0.74                                                  | 0.137                 | x                | x  | x  | x   | x  |
| 2.50              | 02.5     | 250*                   |                                | 0.0340                         | 1.197                                                 | 0.128                 | x                | x  | x  | x   | x  |
| 3.00              | 003.     | 250*                   |                                | 0.0274                         | 1.77                                                  | 0.1225                | x                | x  | x  | x   | x  |
| 3.50              | 03.5     | 250*                   |                                | 0.0224                         | 2.33                                                  | 0.1175                | x                | x  | x  | x   | x  |
| 4.00              | 004.     | 250*                   |                                | 0.0193                         | 3.08                                                  | 0.1125                | x                | x  | x  | x   | x  |
| 5.00              | 005.     | 250*                   |                                | 0.0145                         | 5.55                                                  | 0.1065                | x                | x  | x  | x   | x  |

\* PSE Approval has max. voltage range of 125VAC.

# 263 Series

## PICO® II 250 Volt Fuse, Very Fast Acting

### Temperature Re-rating Curve



**Note:** Re-rating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Soldering Parameters

#### Recommended Process Parameters:

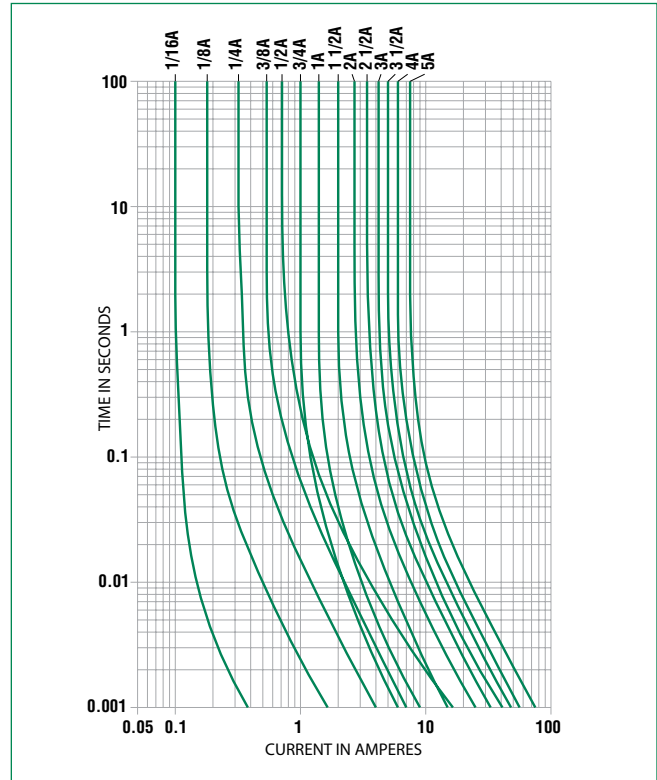
| Wave Parameter                                       | Lead-Free Recommendation          |
|------------------------------------------------------|-----------------------------------|
| Preheat:<br>(Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum: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



# 263 Series

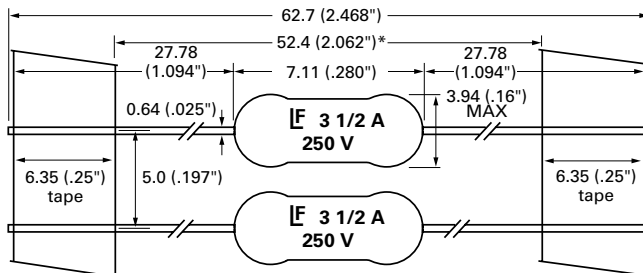
## PICO® II 250 Volt Fuse, Very Fast Acting

### Product Characteristics

|                              |                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials</b>             | Encapsulated, Epoxy-Coated<br>Body: Solder Coated Copper Leads.<br>RoHS compliant<br>Product: Pure Tin-coated Copper wire leads |
| <b>Solderability</b>         | MIL-STD-202, Method 208.                                                                                                        |
| <b>Product Marking</b>       | Body marking, current rating and logo                                                                                           |
| <b>Operating Temperature</b> | -55°C to +125°C (Consider re-rating)                                                                                            |
| <b>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); MIL-STD-202, Method 204, Test Condition C (55–2000 Hz at 10 G's Peak) |
| <b>Salt Spray</b>                             | MIL-STD-202, Method 101, Test Condition B (48 hrs.)                                                       |
| <b>Insulation Resistance (After Opening):</b> | MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum at 100 volts)                              |
| <b>Resistance to Soldering Heat</b>           | MIL-STD-202, Method 210, Test Condition C (10 sec. at 260°C)                                              |
| <b>Thermal Shock</b>                          | MIL-STD-202, Method 107, Test Condition B (-55°C to 125°C)                                                |
| <b>Moisture Resistance</b>                    | MIL-STD-202, Method 106                                                                                   |
| <b>Lead Pull Force</b>                        | MIL-STD-202, Method 211, Test Condition A (will withstand 7 lb. axial pull test)                          |

### Dimensions



### Part Numbering System

**0263 xxxx W R T1 L**

**Series**

**Current Rating**

Refer to Amp Code column of  
Electrical Characteristics Table

**Quantity**

W = 3000  
M = 1000  
H = 100

**Type of Packaging**

R = Reel  
A = Ammo Pack  
X = Loose Pack

**Lead Length**

T1: 52.4mm (2.062")\*

**RoHS + HF**

### Packaging

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