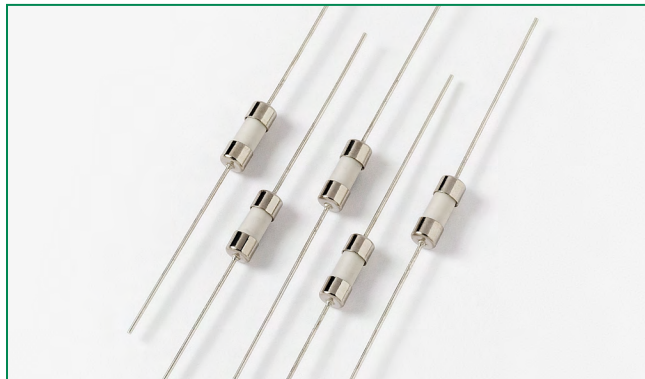


# Axial Lead & Cartridge Fuses

## 3.6 X 10 mm > Fast-Acting Fuse > 874 Series

### 874 Series Fuse, Lead-free 3.6×10 mm, Fast-Acting Fuse



#### Description

Single Pigtail Axial Lead 3.6 ×10mm Fast-Acting Fuse

#### Features

- Designed to UL/CSA 248 Standard
- Single Pigtail Axial Lead format
- Fast Acting, Ceramic body fuse in a compact package
- Pb-free, RoHS Compliant
- Available in ratings of 0.10 to 10 Amperes

#### Applications

This space saving fuse is ideally suited for lighting, power supply, and adapter applications.

#### Agency Approvals

| Agency | Agency File Number | Ampere Range  |
|--------|--------------------|---------------|
|        | E10480             | 0.100A - 10 A |

#### Additional Information



Datasheet



Resources



Samples

#### Electrical Characteristics

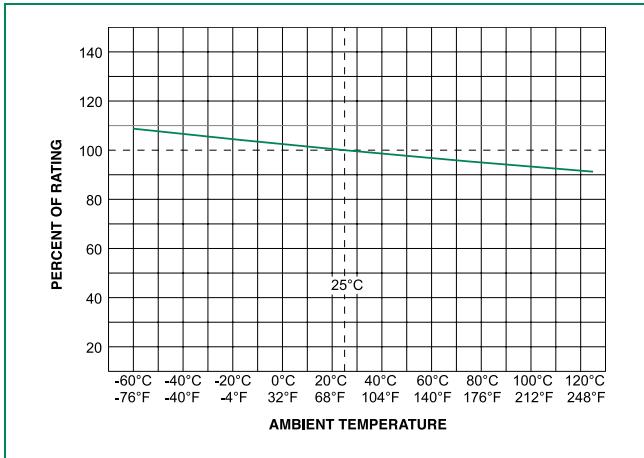
| % of Ampere Rating | Opening Time       |
|--------------------|--------------------|
| 100%               | 4 hours, Minimum   |
| 200%               | 5 seconds, Maximum |

#### Electrical Characteristics

| Amp Code | Ampere Rating (A) | Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals |
|----------|-------------------|--------------------|---------------------|--------------------------------|-------------------------------------------------------|------------------|
| .100     | 0.100             | 250                | 50A @ 250 VAC       | 3.000                          | 0.0010                                                | x                |
| .125     | 0.125             | 250                |                     | 2.0600                         | 0.0039                                                | x                |
| .200     | 0.200             | 250                |                     | 0.9200                         | 0.0066                                                | x                |
| .250     | 0.250             | 250                |                     | 0.6580                         | 0.030                                                 | x                |
| .300     | 0.300             | 250                |                     | 0.4350                         | 0.039                                                 | x                |
| .400     | 0.400             | 250                |                     | 0.3655                         | 0.0578                                                | x                |
| .500     | 0.500             | 250                |                     | 0.2964                         | 0.078                                                 | x                |
| .600     | 0.600             | 250                |                     | 0.2667                         | 0.100                                                 | x                |
| .750     | 0.750             | 250                |                     | 0.2130                         | 0.128                                                 | x                |
| .800     | 0.800             | 250                |                     | 0.1600                         | 0.215                                                 | x                |
| 001.     | 1.00              | 250                |                     | 0.0860                         | 0.406                                                 | x                |
| 01.5     | 1.50              | 250                |                     | 0.0563                         | 0.974                                                 | x                |
| 01.6     | 1.60              | 250                |                     | 0.0525                         | 0.973                                                 | x                |
| 002.     | 2.00              | 250                |                     | 0.0400                         | 1.812                                                 | x                |
| 02.5     | 2.50              | 250                |                     | 0.0329                         | 2.675                                                 | x                |
| 3.15     | 3.15              | 250                |                     | 0.0216                         | 5.904                                                 | x                |
| 004.     | 4.00              | 250                |                     | 0.0195                         | 10.03                                                 | x                |
| 04.5     | 4.50              | 250                |                     | 0.0146                         | 14.42                                                 | x                |
| 005.     | 5.00              | 250                |                     | 0.0139                         | 14.58                                                 | x                |
| 006.     | 6.00              | 250                |                     | 0.0111                         | 23.08                                                 | x                |
| 06.3     | 6.30              | 250                |                     | 0.01074                        | 22.90                                                 | x                |
| 06.5     | 6.50              | 250                |                     | 0.0100                         | 35.24                                                 | x                |
| 007.     | 7.00              | 250                |                     | 0.0099                         | 36.90                                                 | x                |
| 008.     | 8.00              | 250                |                     | 0.0087                         | 75.63                                                 | x                |
| 010.     | 10.00             | 250                |                     | 0.0066                         | 70.10                                                 | x                |

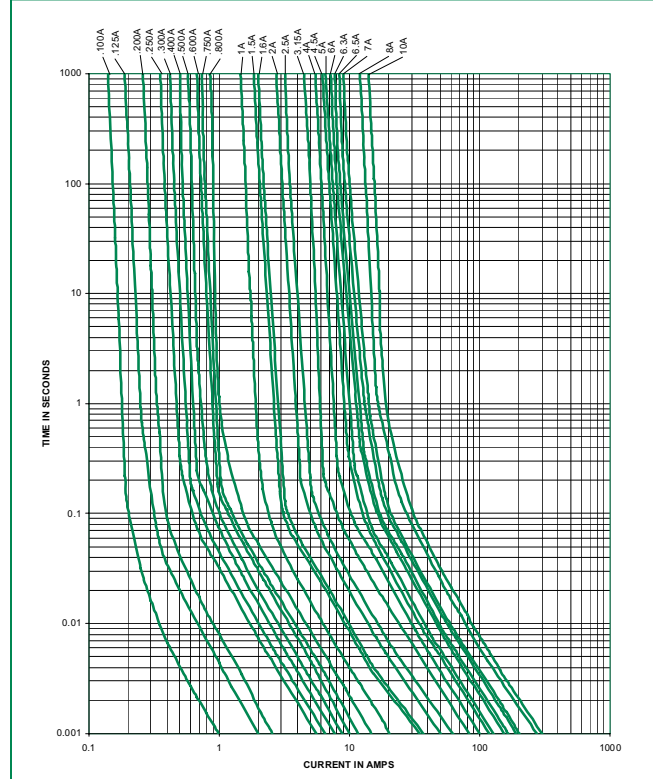
Note: Cold resistance measured at less than 10% of rated current at 23°C.

### Temperature Re-rating Curve

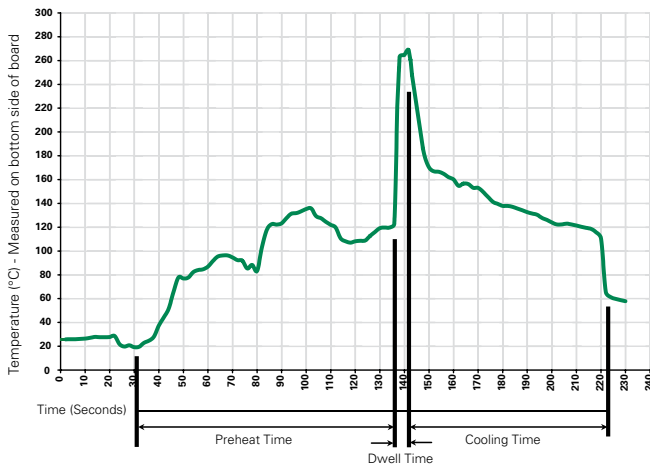


Notes:  
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Average Time Current Curves



### Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter                           | Lead-Free Recommendation          |
|------------------------------------------|-----------------------------------|
| <b>Preheat:</b>                          |                                   |
| (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.**

# Axial Lead & Cartridge Fuses

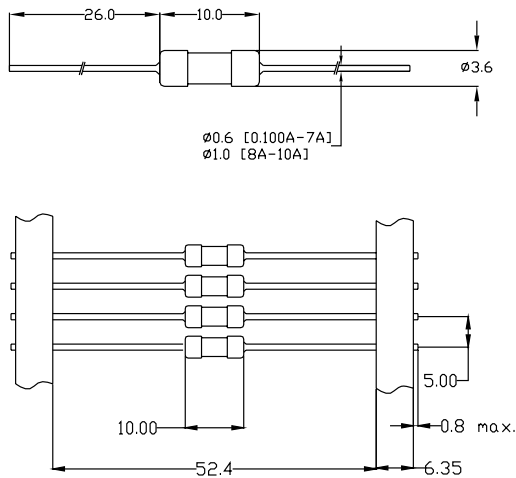
## 3.6 X 10 mm > Fast-Acting Fuse > 874 Series

### Product Characteristics

|                          |                                                                               |
|--------------------------|-------------------------------------------------------------------------------|
| <b>Materials</b>         | Body: Ceramic<br>Cap: Nickel Plated Brass<br>Tin Plated Copper                |
| <b>Terminal Strength</b> | MIL-STD-202, Method 211,<br>Test Condition A                                  |
| <b>Solderability</b>     | MIL-STD-202, Method 208                                                       |
| <b>Product Marketing</b> | Body: Brand Logo, Current Rating<br>Characteristic "F", Agency approval marks |
| <b>Packaging</b>         | Bulk (1000 pcs/pkg)<br>Tape & Reel (1000 pcs/reel)                            |

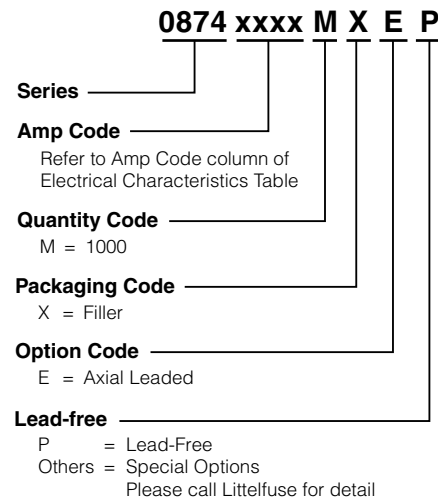
|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -55°C to 125°C                                                          |
| <b>Thermal Shock</b>         | MIL-STD-202, Method 107<br>Test Condition B3 (5 cycles -65°C to +125°C) |
| <b>Vibration</b>             | MIL-STD-202, Method 201 (10-55 Hz)                                      |
| <b>Humidity</b>              | MIL-STD-202, Method 106,<br>High Humidity (90-98%RH), Heat (65°C)       |
| <b>Salt Spray</b>            | MIL-STD-202, Method 101, Test Condition B                               |

### Dimensions



All dimensions in mm

### Part Numbering System



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width       |
|-------------------|-------------------------|----------|---------------------------|--------------------|
| <b>874 Series</b> |                         |          |                           |                    |
| Bulk              | Bulk                    | 1000     | MXE                       | N/A                |
| Tape and Reel     | EIA 296                 | 1000     | MRET1                     | T1 = 52mm (2.062") |

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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