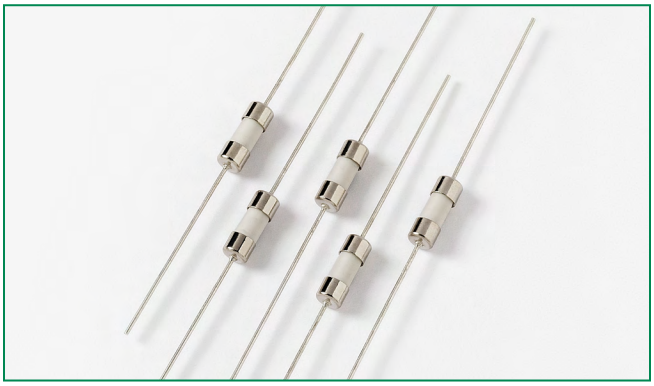
# 877 Series Fuse, Lead-free 3.6 × 10 mm, Time-Lag Fuse



| Agency | Agency File Number | Ampere Range |
|---|---|---|
| VDE | 40023242 | 2A – 6.3A |
| cULus | E10480 | 2A – 6.3A |
| CQC | CQC09012029601 | 2A – 6.3A |
| KC | SU05024-10002 | 2A |
| | SU05024-10001 | 3.15A - 6.3A |
| PSE | NBK240212-JP1021 | 2A – 4A |

## Additional Information

**Datasheet** | **Resources** | **Samples**

## Description

Single Pigtail Axial Lead 3.6×10mm, Time-Lag Fuse

## Features

- Designed to meet IEC 60127-3 Standard Sheet 4
- Time-Lag, ceramic body fuse in a compact package
- Single Pigtail Axial Lead format
- Pb-free, RoHS compliant
- Available in ratings of 2 to 6.3 Amperes

## Applications

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

## Electrical Characteristics

| % of Ampere Rating | Opening Time |
|---|---|
| 150% | 60 minutes, Minimum |
| 210% | 2 minutes, Maximum |
| 275% | 400 ms., Min.; 10 sec. Max. |
| 400% | 150 ms., Min.; 3 sec. Max. |
| 1000% | 20 ms. Min.; 150 ms. Max. |

## Electrical Characteristics

| Amp Code | Ampere Rating (A) | Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting $I^2t$ ($A^2$ sec) | Nominal Voltage Drop (mV) | Nominal Power Dissipation (mW) | Agency Approvals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | VDE | cULus | PSE | KC | CQC |
| 002. | 2.0 | 250 | 35A @ 250 V AC | 0.035 | 24.6 | 82 | 450 | x | x | x | x | x |
| 3.15 | 3.15 | 250 | 35A @ 250 V AC | 0.020 | 67.6 | 76 | 690 | x | x | x | x | x |
| 004. | 4.0 | 250 | 40A @ 250 V AC | 0.0167 | 143.4 | 74 | 926 | x | x | x | x | x |
| 06.3 | 6.3 | 250 | 63A @ 250 V AC | 0.0087 | 190 | 60 | 1130 | x | x | | x | x |

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

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Application testing is strongly recommended. Specifications are subject to change without notice.
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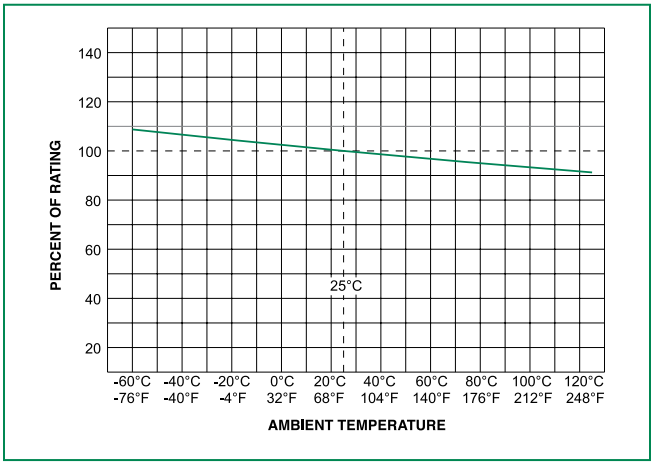
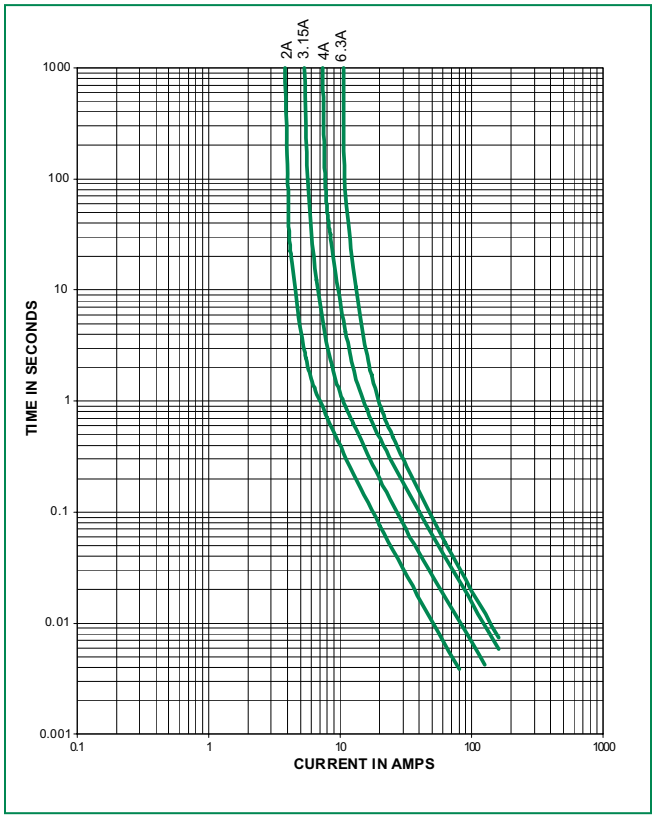
## Temperature Re-rating Curve

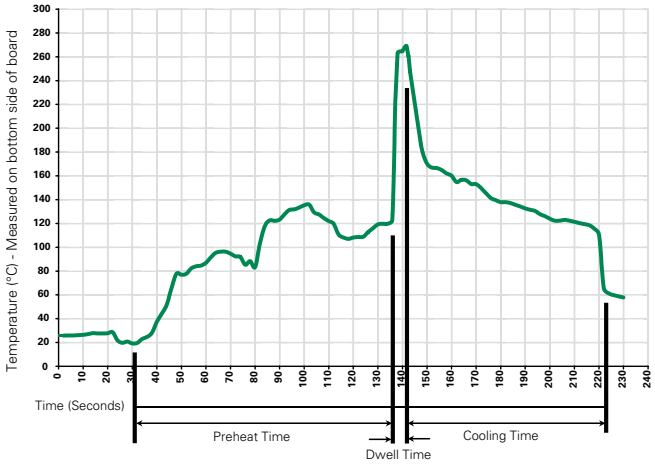



Note:
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

## Average Time Current Curves




## Soldering Parameters - Wave Soldering




### Recommended Process Parameters:

| Wave Parameter | Lead-Free Recommendation |
|---|---|
| Preheat: (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.**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Revised: 05/12/15

# Axial Lead & Cartridge Fuses

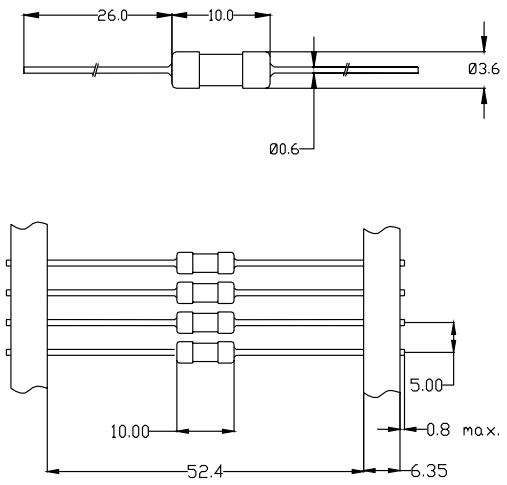
## 3.6 X 10 mm > Time-Lag Fuse > 877 Series

## Product Characteristics

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

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

## Dimensions




All dimensions in mm

## Part Numbering System

**0877 xxxx M X E P**

**Series**

**Amp Code**
Refer to Amp Code column of Electrical Characteristics Table

**Quantity Code**
M = 1000

**Packaging Code**
X = Filler

**Option Code**
E = Axial Leaded

**Lead-free**
P = Lead-Free
Others = Special Options
Please call Littelfuse for detail

## Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|---|---|---|---|---|
| **877 Series** | | | | |
| Bulk | Bulk | 1000 | MXE | N/A |
| Tape and Reel | EIA 296 | 1000 | MRET1 | T1 = 52mm (2.062") |

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Revised: 05/12/15

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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**Офис по работе с юридическими лицами:**

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9