

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



#### Description

The 876 Series is a single pigtail, axial leaded, 3.6 ×10mm, fast-acting fuse

#### Features

- Designed to meet IEC 60127-3 Standard Sheet 3
- Fast-Acting, ceramic body fuse in a compact package
- Single Pigtail Axial Lead format
- Pb-free, RoHS compliant
- Available in ratings of .125 to 5 Amperes

#### Agency Approvals

| Agency | Agency File Number | Ampere Range         |
|--------|--------------------|----------------------|
|        | 40022494           | 0.125A - 0.630A - 5A |
|        | E10480             | 0.125A - 5A          |
|        | NBK240212-JP1021   | 1.6A - 5A            |
|        | SU05024-11001      | 0.125A - 0.630A      |
|        | SU05024-11002      | 1.6A - 2A            |
|        | SU05024-11003      | 4A - 5A              |
|        | 2020970207000060   | 0.125A - 5A          |

#### 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%               | 30 minutes, Maximum       |
| 275%               | 10 ms., Min.; 3 sec. Max. |
| 400%               | 3 ms., Min.; 300 ms. Max. |
| 1000%              | 20 ms. Max.               |

#### Additional Information



Datasheet



Resources



Samples

#### Electrical Characteristics

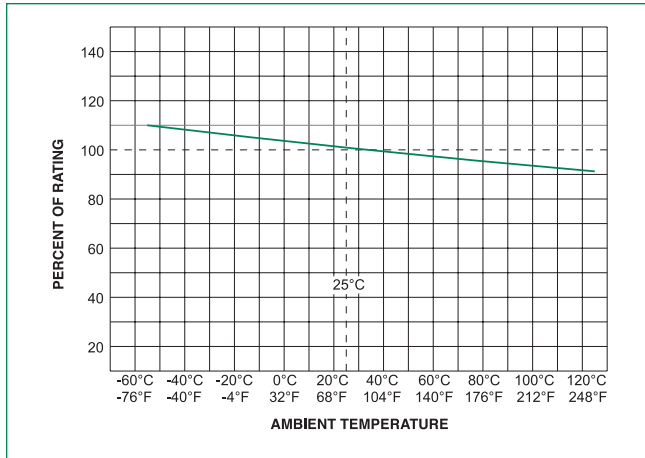
| Amp Code | Ampere Rating (A) | Voltage Rating (V) | Interrupting Rating** | Nominal Cold Resistance (Ω)* | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Nominal Voltage Drop (mV) | Nominal Power Dissipation (mW) | Agency Approvals |   |   |   |   |
|----------|-------------------|--------------------|-----------------------|------------------------------|-------------------------------------------------------|---------------------------|--------------------------------|------------------|---|---|---|---|
|          |                   |                    |                       |                              |                                                       |                           |                                |                  |   |   |   |   |
| .125     | 0.125             | 250                | 35A @ 250 V AC        | 1.066                        | 0.020                                                 | 168                       | 60                             | x                | x | - | x | x |
| .160     | 0.160             | 250                | 35A @ 250 V AC        | 1.000                        | 0.028                                                 | 183                       | 92                             | -                | x | - | x | x |
| .250     | 0.250             | 250                | 35A @ 250 V AC        | 0.573                        | 0.110                                                 | 87                        | 62                             | -                | x | - | x | x |
| .630     | 0.630             | 250                | 35A @ 250 V AC        | 0.131                        | 0.170                                                 | 102                       | 221                            | x                | x | - | x | x |
| 01.6     | 1.6               | 250                | 35A @ 250 V AC        | 0.0388                       | 1.8                                                   | 70                        | 382                            | x                | x | x | x | x |
| 002.     | 2.0               | 250                | 35A @ 250 V AC        | 0.0329                       | 2.51                                                  | 70                        | 470                            | x                | x | x | x | x |
| 004.     | 4.0               | 250                | 40A @ 250 V AC        | 0.0149                       | 14.64                                                 | 70                        | 985                            | x                | x | x | x | x |
| 005.     | 5.0               | 250                | 50A @ 250 V AC        | 0.0111                       | 26.85                                                 | 66                        | 1200                           | x                | x | x | x | x |

#### Notes:

\*Cold resistance measured at less than 10% of rated current at 23°C.

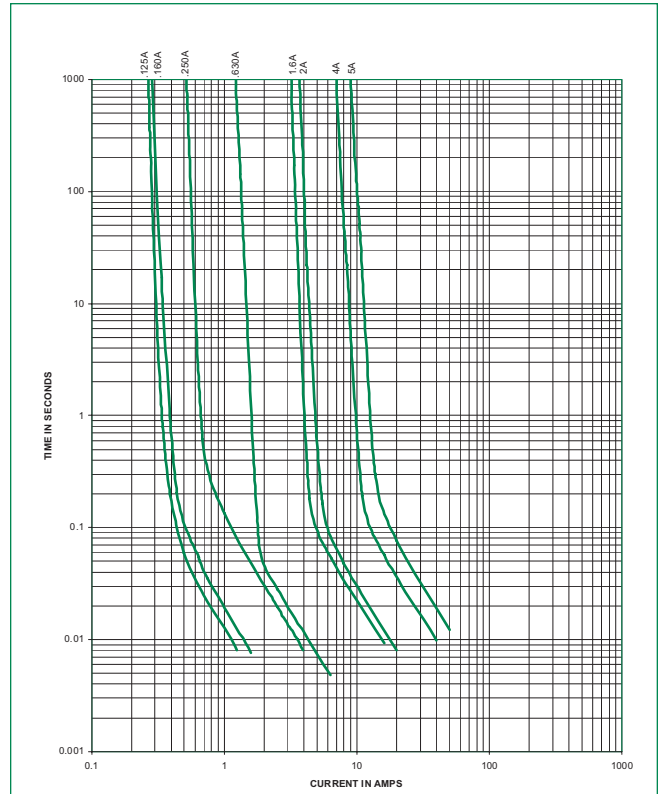
\*\* Interrupting Rating may differ based on Agency Approval. See Agency Approval certificate for more details.

### Temperature Re-rating Curve

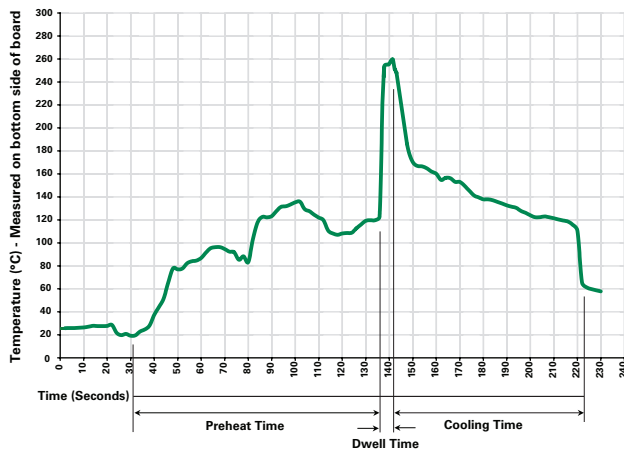


**Note:**  
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Average Time Current Curves



### Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter                                       | Lead-Free Recommendation          |
|------------------------------------------------------|-----------------------------------|
| 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.

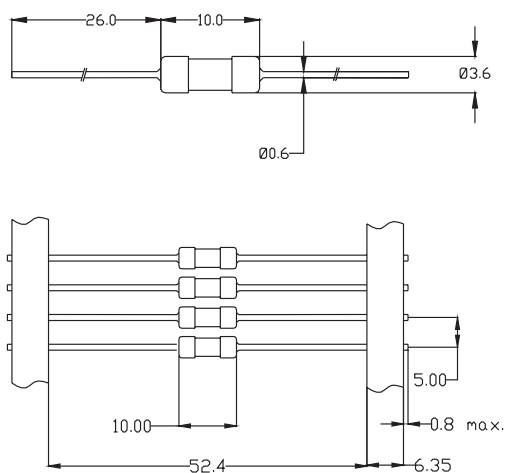
**Note:** These devices are not recommended for IR or Convection Reflow process.

### 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>     | IEC 60127-2, Annex A                                           |
| <b>Product Marketing</b> | Body: Brand Logo, Current Rating<br>Characteristic "F"         |
| <b>Packaging</b>         | Bulk (1000 pcs/pkg)<br>Tape & Reel (1000 pcs/reel)             |

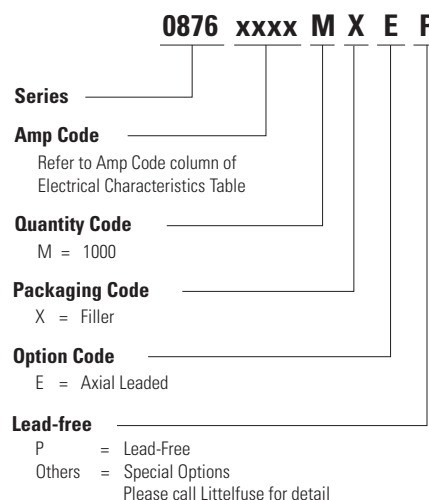
|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -55°C to 125°C                                                          |
| <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>876 Series</b> |                         |          |                           |                     |
| Bulk              | Bulk                    | 1000     | MXE                       | N/A                 |
| Tape and Reel     | EIA 296                 | 1000     | MRET1                     | T1 = 52mm ( 2.062") |