

# 460 Series

## PICO® Slo-Blo® Surface Mount Fuse



### Description

The 460 Series Slo-Blo® SMF Fuse is based on Littelfuse PICO® fuse through-hole technology, though offered in a surface mount package.

This series of devices meet the requirements of the RoHS directive.

### Features & Benefits

- High inrush current withstand capability
- Wide current rating range: 0.375A to 5A
- Wide operating temperature range
- Halogen free and RoHS compliant

### Applications

- Wireless base station
- Network equipment
- Telecom equipment

### Additional Information



Resources



Accessories



Samples

### Agency Approvals

| Agency | Agency File Number | Ampere Range |
|--------|--------------------|--------------|
| CE     | N/A                | 0.375A - 5A  |
| UL     | E10480             | 0.375A - 5A  |
| SP     | 29862              | 0.375A - 5A  |
| PSE    | NBK030205-E10480B  | 1A - 5A      |

### Electrical Characteristics for Series

| % of Ampere Rating | Opening Time                         |
|--------------------|--------------------------------------|
| 100%               | 4 hours, Minimum                     |
| 200%               | 1 second, Min.; 120 seconds, Max.    |
| 300%               | 0.2 second, Min.; 3 seconds, Max.    |
| 800%               | 0.002 second, Min.; 0.1 second, Max. |

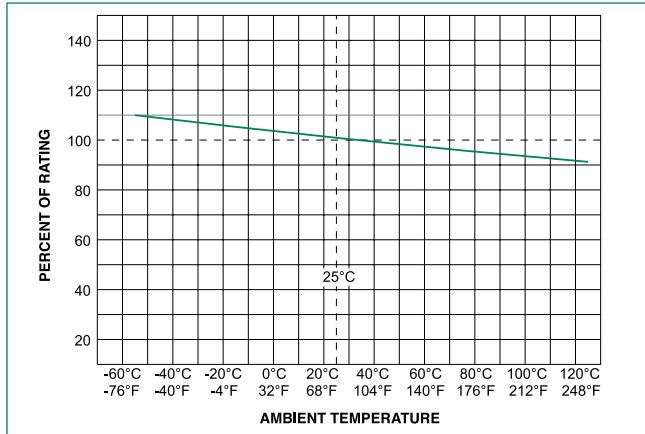
### Electrical Specifications by Item

| 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) | Agency Approvals |    |    |     |
|-------------------|----------|------------------------|--------------------------------|--------------------------------|-------------------------------------------------------|------------------|----|----|-----|
|                   |          |                        |                                |                                |                                                       | CE               | UL | SP | PSE |
| 0.375             | .375     | 125                    | 50 A @125 VAC<br>50 A @125 VDC | 1.7400                         | 0.085                                                 | x                | x  | x  | -   |
| 0.500             | .500     | 125                    |                                | 1.1900                         | 0.210                                                 | x                | x  | x  | -   |
| 0.750             | .750     | 125                    |                                | 0.4970                         | 0.760                                                 | x                | x  | x  | -   |
| 1.00              | 001.     | 125                    |                                | 0.2800                         | 2.01                                                  | x                | x  | x  | x   |
| 1.50              | 01.5     | 125                    |                                | 0.1170                         | 3.94                                                  | x                | x  | x  | x   |
| 2.00              | 002.     | 125                    |                                | 0.0720                         | 7.60                                                  | x                | x  | x  | x   |
| 2.50              | 02.5     | 125                    |                                | 0.0520                         | 13.0                                                  | x                | x  | x  | x   |
| 3.00              | 003.     | 125                    |                                | 0.0380                         | 18.15                                                 | x                | x  | x  | x   |
| 3.50              | 03.5     | 125                    |                                | 0.0240                         | 26.8                                                  | x                | x  | x  | x   |
| 4.00              | 004.     | 125                    |                                | 0.0200                         | 35.0                                                  | x                | x  | x  | x   |
| 5.00              | 005.     | 125                    |                                | 0.0133                         | 54.8                                                  | x                | x  | x  | x   |

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**Temperature Re-rating Curve**



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

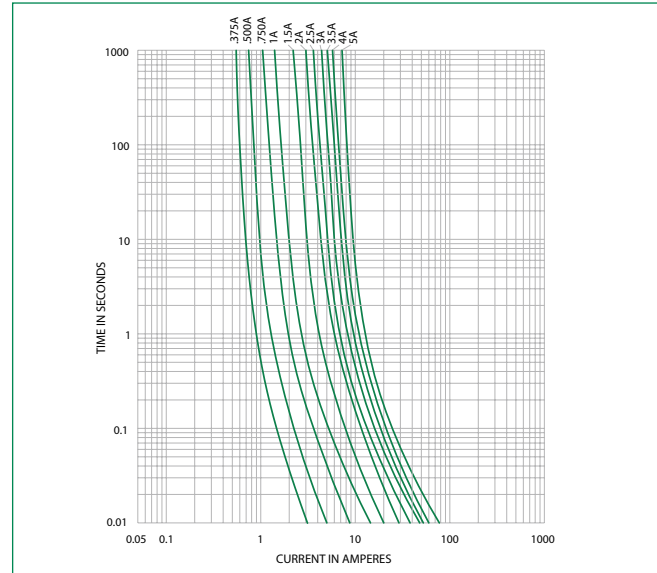
**Soldering Parameters**

|                         |                        |
|-------------------------|------------------------|
| <b>Wave Soldering</b>   | 260°C, 3 seconds max.  |
| <b>Reflow Soldering</b> | 230°C, 30 seconds max. |

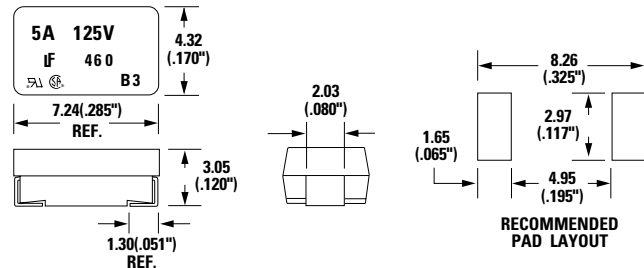
**Product Characteristics**

|                                              |                                                                                                       |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Materials</b>                             | <b>Body:</b> Molded Thermoplastic<br><b>Terminations:</b> 100% Tin-plated Copper                      |
| <b>Solderability</b>                         | MIL-STD-202, Method 208                                                                               |
| <b>Product Marking</b>                       | <b>Body:</b> Brand Logo, Current Rating, Voltage Rating, Series Code, Date Code, Agency Approved Logo |
| <b>Moisture Sensitivity</b>                  | Level 1 J-STD - 020                                                                                   |
| <b>Operating Temp.</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 msec.)                                  |
| <b>Vibration</b>                             | MIL-STD-202, Method 201 (10-55 Hz, 0.06 inch total excursion)                                         |
| <b>Salt Spray</b>                            | MIL-STD-202, Method 101, Test Condition B (48 hours)                                                  |
| <b>Insulation Resistance (After Opening)</b> | MIL-STD-202, Method 302, (10,000 ohms minimum at 100 volts)                                           |
| <b>Thermal Shock</b>                         | MIL-STD-202, Method 107, (-55°C to 125°C)                                                             |
| <b>Moisture Resistance</b>                   | MIL-STD-202, Method 106, High Humidity (90-98 RH), Heat (65°C)                                        |

**Average Time Current Curves**



**Dimensions**



**Part Numbering System**

|                       |                                           |             |           |
|-----------------------|-------------------------------------------|-------------|-----------|
| <b>SERIES</b>         | <b>0460</b>                               | <b>.500</b> | <b>UR</b> |
| <b>AMP CODE</b>       | Refer to Electrical Characteristics table |             |           |
| <b>QUANTITY CODE</b>  | UR = 500 pcs<br>ER = 2500 pcs             |             |           |
| <b>PACKAGING CODE</b> | R = Tape and Reel                         |             |           |

**Example:**  
1 Amp product is  
0460 **001**. UR (.5 Amp  
product shown above).

**Packaging**

| Packaging Option      | Packaging Specification           | Quantity | Quantity & Packaging Code |
|-----------------------|-----------------------------------|----------|---------------------------|
| 12mm<br>Tape and Reel | EIA RS-481-1<br>(IEC 286, part 3) | 500      | UR                        |
|                       |                                   | 2500     | ER                        |

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