



### Agency Approvals

| Agency                                                                            | Agency File Number                           | Ampere Range        |
|-----------------------------------------------------------------------------------|----------------------------------------------|---------------------|
|  | E10480                                       | 125mA - 10A         |
|  | NBK200405-E10480 C/D<br>NBK060405-E10480 E/F | 1A - 5A<br>6A - 10A |
|  |                                              | 125mA - 10A         |

### Description

Littelfuse 208 Series (2AG) 350V Fast-Acting Fuses are available in cartridge form or with axial leads. This series provides the same performance characteristics as its 3AG counterpart, while occupying one-third the space. Sleeved fuses are available.

### Features

- In accordance with Underwriter's Laboratories Standard UL 248-14
- Available in cartridge and axial lead form
- and with various lead forming dimensions
- RoHS compliant and Lead-free

### Applications

- Electrical ballasts used in fluorescent lighting and other applications

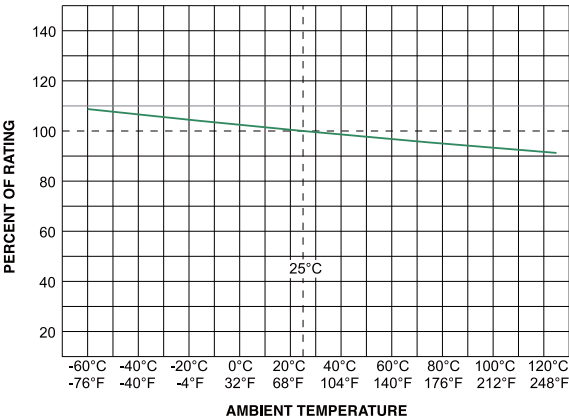
### Electrical Characteristics for Series

| % of Ampere Rating | Opening Time          |
|--------------------|-----------------------|
| 100%               | 4 Hours, <b>Min.</b>  |
| 135%               | 1 Hour, <b>Max.</b>   |
| 200%               | 1 Second, <b>Max.</b> |

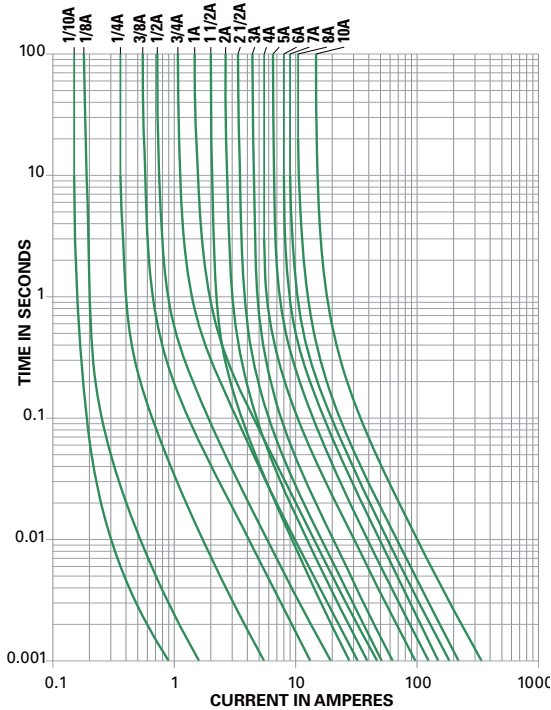
### Electrical Characteristic Specifications by Item

| Amp Code | Amp Rating | Voltage Rating | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals                                                                      |                                                                                       |                                                                                       |
|----------|------------|----------------|---------------------|--------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|          |            |                |                     |                                |                                                       |  |  |  |
| .125     | 0.125      | 350            | 100A @ 350V AC      | 3.900                          | 0.00286                                               | x                                                                                     |                                                                                       | x                                                                                     |
| .250     | 0.250      | 350            |                     | 1.150                          | 0.0300                                                | x                                                                                     |                                                                                       | x                                                                                     |
| .375     | 0.375      | 350            |                     | 0.395                          | 0.171                                                 | x                                                                                     |                                                                                       | x                                                                                     |
| .500     | 0.500      | 350            |                     | 0.265                          | 0.365                                                 | x                                                                                     |                                                                                       | x                                                                                     |
| .750     | 0.750      | 350            |                     | 0.152                          | 1.050                                                 | x                                                                                     |                                                                                       | x                                                                                     |
| 001.     | 1.0        | 350            |                     | 0.103                          | 2.220                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 01.5     | 1.5        | 350            |                     | 0.0712                         | 0.800                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 002.     | 2.0        | 350            |                     | 0.0497                         | 1.50                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 02.5     | 2.5        | 350            |                     | 0.0372                         | 2.68                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 003.     | 3.0        | 350            |                     | 0.0317                         | 4.62                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 03.5     | 3.5        | 350            |                     | 0.0265                         | 6.70                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 004.     | 4          | 350            |                     | 0.0240                         | 9.40                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 005.     | 5          | 350            |                     | 0.0186                         | 17.00                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 006.     | 6          | 350            |                     | 0.0154                         | 22.10                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 007.     | 7          | 350            |                     | 0.0130                         | 40                                                    | x                                                                                     | x                                                                                     | x                                                                                     |
| 008.     | 8          | 350            |                     | 0.0107                         | 56                                                    | x                                                                                     | x                                                                                     | x                                                                                     |
| 010.     | 10         | 350            |                     | 0.0075                         | 116                                                   | x                                                                                     | x                                                                                     | x                                                                                     |

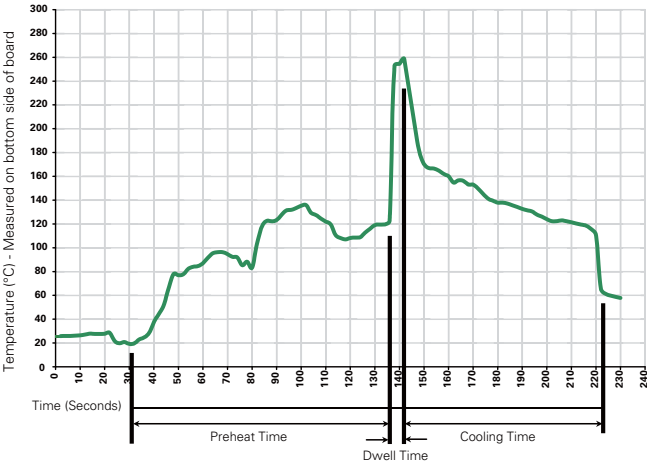
Temperature Derating Curve



Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

| Wave Parameter                                              | Lead-Free Recommendation |
|-------------------------------------------------------------|--------------------------|
| <b>Preheat:</b><br>(Depends on Flux Activation Temperature) |                          |
| 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.

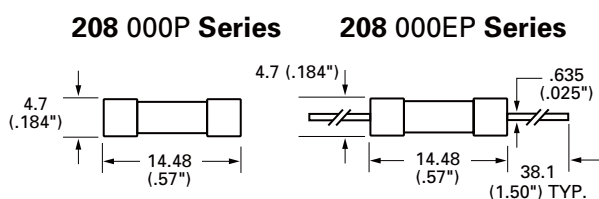
**Note: These devices are not recommended for IR or Convection Reflow process.**

## Product Characteristics

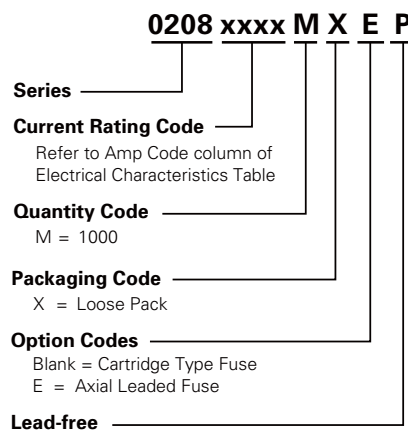
|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| <b>Materials</b>         | Body : Glass<br>Cap : Nickel-plated brass<br>Leads: Tin-plated Copper                     |
| <b>Terminal Strength</b> | MIL-STD-202G, Method 211A, Test Condition A                                               |
| <b>Solderability</b>     | Reference IEC 60127 Second Edition 2003-01 Annex A                                        |
| <b>Product Marking</b>   | Cap1 : Brand logo, current and voltage ratings<br>Cap2 : Series and agency approval marks |

|                               |                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Operating Temperature:</b> | -55°C to 125°C.                                                                                   |
| <b>Thermal Shock:</b>         | MIL-STD-202G, Method 107G, Test Condition B (5 Cycles -65°C to +125°C).                           |
| <b>Vibration</b>              | MIL-STD-202G, Method 201A                                                                         |
| <b>Humidity</b>               | MIL-STD-202G, Method 103B, Test Condition A: High RH (95%) and elevated temp (40°C) for 240 hours |
| <b>Salt Spray</b>             | MIL-STD-202G, Method 101D, Test Condition B                                                       |

## Dimensions



## Part Numbering System



## Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width     |
|-------------------|-------------------------|----------|---------------------------|------------------|
| <b>208 Series</b> |                         |          |                           |                  |
| Bulk              | N/A                     | 1000     | MX                        | N/A              |
| Bulk              | N/A                     | 1000     | MXE                       | N/A              |
| Reel and Tape     | EIA 296-E               | 1500     | DRT1                      | T1=52mm (2.062") |

