# 2206 Series, Lead-Free 2AG, Fast-Acting Fuse

## Agency Approvals

| Agency | Agency File Number | Ampere Range |
|---|---|---|
| | E10480 | 750mA - 3A |
| | LR 29862 | 750mA - 3A |
| | | 750mA - 3A |

## Description

The 2AG Fast-Acting Axial Leaded Fuses provide the same performance characteristics as their 3AG counterpart, while occupying one-third the space.

## Features

- In accordance with Underwriter's Laboratories Standard UL 248-14
- Fuses are boardwashable in most solvents with thermoplastic sleeve
- Available in axial lead form and with various lead forming dimensions
- RoHS compliant and Lead-free

## Applications

Used as supplimentary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

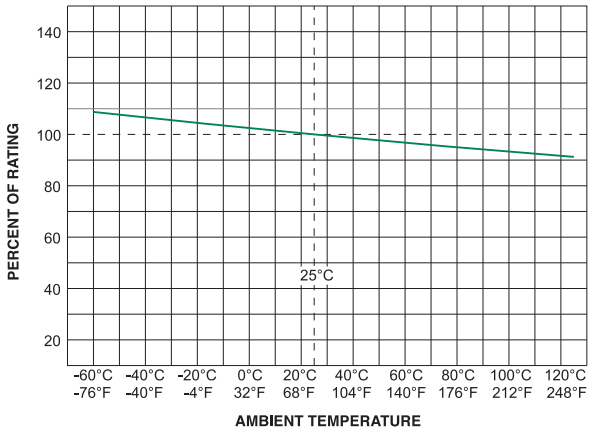
## Electrical Characteristics for Series

| % of Ampere Rating | Opening Time |
|---|---|
| 100% | 4 Hours, Minimum |
| 135% | 1 Hour, Maximum |
| 200% | 1 Second, Maximum |

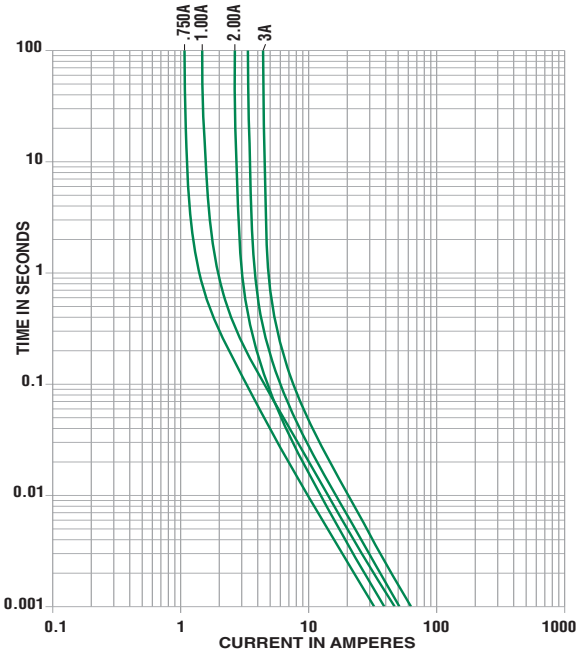
## Electrical Characteristic Specifications by Item

| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting $I^2t$ ($A^2$ sec) | Nom Voltage Drop (mV) | Nom Power Dissipation (W) | Agency Approvals | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| .750 | 0.75 | 300 | 100A@300Vac 10KA@125Vac | 0.1520 | 1.05 | N/A | N/A | x | x |
| 1 | 001 | 300 | | 0.1027 | 2.22 | N/A | N/A | x | x |
| 2 | 002 | 300 | | 0.0497 | 1.50 | N/A | N/A | x | x |
| 3 | 003 | 300 | | 0.0317 | 4.62 | N/A | N/A | x | x |

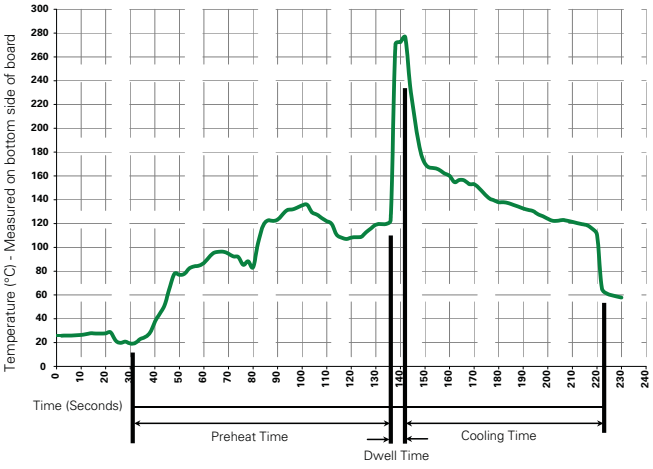
## Temperature Rerating Curve




## 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 Max |
| 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.**



Revised: March 11, 2009

# Cartridge and Axial Lead Fuses

2AG > Fast Acting > 2206 Series

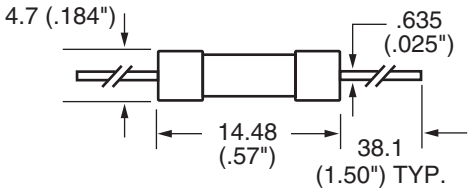
## Product Characteristics

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

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

## Dimensions

**2206** 000P **Series**




## Part Numbering System

**02206 xxxx M X P**

**Series**

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

**Quantity Code**
M = 1000

**Packaging Code**
X = Loose Pack

**Lead-free**

## Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Reel Size |
|---|---|---|---|---|
| **2206 Series** | | | | |
| Bulk | N/A | 100 | HX | N/A |
| Bulk | N/A | 1000 | MX | N/A |

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