## Features

- Slow blow fusing speed
- EIA 1206 (3216 metric) footprint
- AEC-Q200 compliant*
- UL 248-14 listed
- RoHS compliant** and halogen free***

# SF-1206SA-W Series - Automotive Grade Slow Blow SMD Fuses

### Clearing Time Characteristics for Series

| % of Current Rating | Clearing Time @ 25 °C | |
|---|---|---|
| | Min. | Max. |
| 100 % | 4 hours | — |
| 250 % | — | 5 seconds |

### Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES

### Electrical Characteristics

| Model | Rated Current (A) | Resistance (Ω) Typ.***** | Rated Voltage | Interrupting Rating | Typical $I^2t$ ($A^2s$) ****** | Certifications |
|---|---|---|---|---|---|---|
| | | | | | | cUL: E198545 |
| SF-1206SA150W-2 | 1.5 | 0.05 | 110 VDC | 50 A @ 110 VDC | 0.37 | ✓ |
| SF-1206SA160W-2 | 1.6 | 0.043 | | | 0.52 | ✓ |
| SF-1206SA200W-2 | 2 | 0.032 | | | 0.88 | ✓ |
| SF-1206SA250W-2 | 2.5 | 0.028 | 65 VDC | 50 A @ 65 VDC | 1.1 | ✓ |
| SF-1206SA300W-2 | 3 | 0.0224 | | | 1.9 | ✓ |
| SF-1206SA315W-2 | 3.15 | 0.0203 | | | 2.2 | ✓ |
| SF-1206SA350W-2 | 3.5 | 0.018 | | | 2.6 | ✓ |
| SF-1206SA400W-2 | 4 | 0.0161 | | | 3.3 | ✓ |
| SF-1206SA500W-2 | 5 | 0.0129 | 32 VDC | 50 A @ 32 VDC | 5.4 | ✓ |
| SF-1206SA630W-2 | 6.3 | 0.01 | | | 8.9 | ✓ |
| SF-1206SA700W-2 | 7 | 0.0094 | | | 10.4 | ✓ |
| SF-1206SA800W-2 | 8 | 0.0084 | | | 13.5 | ✓ |
| SF-1206SA1000W-2 | 10 | 0.005 | | | 11.2 | ✓ |
| SF-1206SA1200W-2 | 12 | 0.0041 | | | 15 | ✓ |
| SF-1206SA1500W-2 | 15 | 0.0035 | | | 24.5 | ✓ |

***** Resistance value measured with ≤10 % rated current at 25 °C ambient. Tolerance ± 25 %.
****** Melting $I^2t$ calculated at 0.001 second pre-arcing time.

**WARNING Cancer and Reproductive Harm -** www.P65Warnings.ca.gov

* Meets Bourns' internal AEC-Q200 equivalent test plan.
** RoHS Directive 2015/863, Mar 31, 2015 and Annex.
*** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

"SingIFuse" is a trademark of Bourns, Inc.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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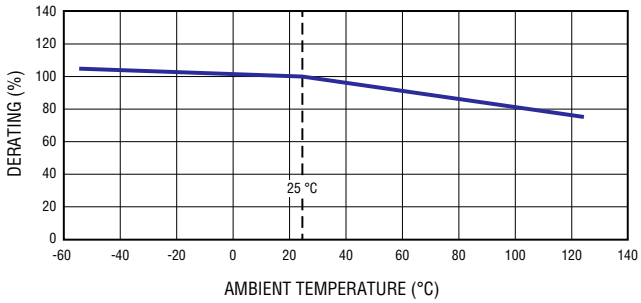
## Environmental Characteristics

| | |
|---|---|
| **Operating Temperature** | -55 °C to + 125 °C |
| **Storage Conditions** | |
| **Temperature** | +5 °C to +35 °C |
| **Humidity** | 40 % to 75 % |
| **Moisture Sensitivity Level** | 1 |
| **ESD Classification**[1] | Class 6 |

[1]per AEC-Q200-2, HBM

## Current Rating Thermal Derating Curve




## Typical Part Marking

Represents total content. Layout may vary.
Markings in blue color.

| Rated Current | Part Marking |
|---|---|
| 1.5 A | G |
| 1.6 A | T |
| 2 A | I |
| 2.5 A | J |
| 3 A | K |
| 3.15 A | V |
| 3.5 A | L |
| 4 A | M |

| Rated Current | Part Marking |
|---|---|
| 5 A | N |
| 6.3 A | O |
| 7 A | P |
| 8 A | R |
| 10 A | Q |
| 12 A | X |
| 15 A | Y |

## How to Order

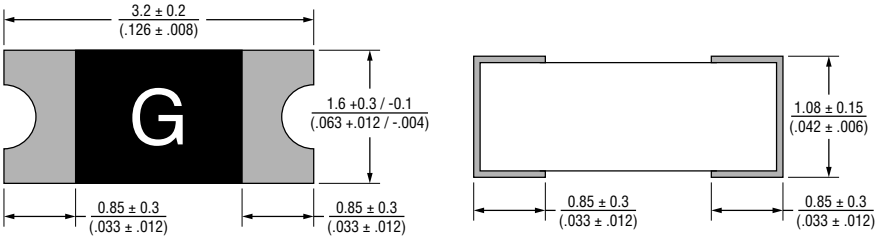
**SF - 1206 S A 150 W - 2**

- SinglFuse™ Product Designator
- SMD Footprint
  1206 = EIA 1206 (3216 metric)
- Fuse Blow Type
  S = Slow Blow
- Automotive Grade
- Rated Current
  150 ~ 1500 = 1.5 A ~ 15 A
- Structure Type
  W = Wire Core
- Packaging Type
  - 2 = Tape & Reel

## Packaging

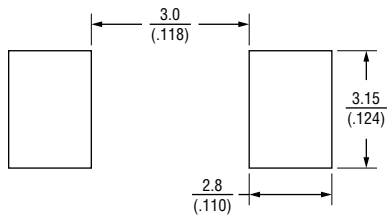
| | |
|---|---|
| **Reel Dimension** | 7-inch Tape and Reel |
| **Specification** | EIA 481-2 |
| **Quantity** | 3,500 pieces |
| **Packaging Code** | -2 |

## Product Dimensions




DIMENSIONS: MM / (INCHES)

## Recommended Pad Layout




DIMENSIONS: MM / (INCHES)

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