

# **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 | Clearing Time @ 25 °C |           |  |
|--------------|-----------------------|-----------|--|
| Rating       | Min.                  | Max.      |  |
| 100 %        | 4 hours               | _         |  |
| 250 %        | _                     | 5 seconds |  |

#### **Additional Information**

Click these links for more information:









<u>PRODUC</u>

LIBRAF

<u>AL INV</u> Y

SAMPL

## **Electrical Characteristics**

| Model            | Rated Current | Resistance   | Rated   | Interrupting   | Typical I <sup>2</sup> t | Certifications      |
|------------------|---------------|--------------|---------|----------------|--------------------------|---------------------|
| Model            | (A)           | (Ω) Typ.**** | Voltage | Rating         | (A <sup>2</sup> s) ***** | cUL: <u>E198545</u> |
| SF-1206SA150W-2  | 1.5           | 0.05         |         |                | 0.37                     | <b>✓</b>            |
| SF-1206SA160W-2  | 1.6           | 0.043        | 110 VDC | 50 A @ 110 VDC | 0.52                     | ✓                   |
| SF-1206SA200W-2  | 2             | 0.032        |         |                | 0.88                     | <b>✓</b>            |
| SF-1206SA250W-2  | 2.5           | 0.028        |         |                | 1.1                      | ✓                   |
| SF-1206SA300W-2  | 3             | 0.0224       |         |                | 1.9                      | ✓                   |
| SF-1206SA315W-2  | 3.15          | 0.0203       | 65 VDC  | 50 A @ 65 VDC  | 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       |         |                | 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       | 32 VDC  | 50 A @ 32 VDC  | 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                     | /                   |

<sup>\*\*\*\*\*</sup> Resistance value measured with ≤10 % rated current at 25 °C ambient. Tolerance ± 25 %.



# 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.

"SinglFuse" is a trademark of Bourns, Inc.

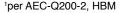
Specifications are subject to change without notice.

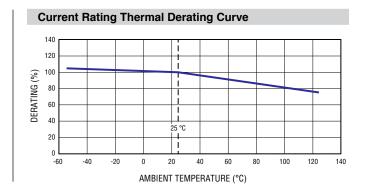
<sup>\*\*\*\*\*\*</sup> Melting  $I^2t$  calculated at 0.001 second pre-arcing time.

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

# **BOURNS**

| <b>Environmental Characteristics</b> |                    |
|--------------------------------------|--------------------|
| 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 <sup>1</sup>      | Class 6            |





### **Typical Part Marking**

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



| Rated<br>Current | Part<br>Marking |
|------------------|-----------------|
| 1.5 A            | G               |
| 1.6 A            | Т               |
| 2 A              | 1               |
| 2.5 A            | J               |
| 3 A              | K               |
| 3.15 A           | V               |
| 3.5 A            | L               |
| 4 A              | М               |

| Rated<br>Current | Part<br>Marking |
|------------------|-----------------|
| 5 A              | N               |
| 6.3 A            | 0               |
| 7 A              | Р               |
| 8 A              | R               |
| 10 A             | Q               |
| 12 A             | Х               |
| 15 A             | Y               |

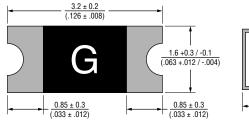
| How to Order  |     |
|---|-----|
| SF - 1206 S A 150 W                                 | - 2 |
| SinglFuse™<br>Product Designator                    |     |
| SMD Footprint<br>1206 = EIA 1206<br>(3216 metric)   |     |
| Fuse Blow Type ———————————————————————————————————— |     |
| Automotive Grade —                                  |     |
| Rated Current — 150 ~ 1500 = 1.5 A ~ 15 A           |     |
| Structure Type W = Wire Core                        |     |
| Packaging Type —                                    |     |

- 2 = Tape & Reel

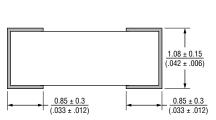
# Packaging

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

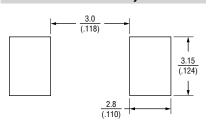
## **Product Dimensions**



DIMENSIONS:  $\frac{MM}{(INCHES)}$ 



## **Recommended Pad Layout**



DIMENSIONS:  $\frac{MM}{(INCHES)}$