

# Bourns® SinglFuse™ SMD Fuse Product Guide

## GENERAL PURPOSE SINGLFUSE™ SMD FUSES

### 0402 FOOTPRINT

| Model Series                | Photo                                                                             | Fusing Characteristic           | Rated Current/Voltage | Rated Temperature | Agency Recognition |
|-----------------------------|-----------------------------------------------------------------------------------|---------------------------------|-----------------------|-------------------|--------------------|
| <a href="#">SF-0402FP-F</a> |  | 200 % I <sub>F</sub> in 5 sec.  | 0.2 A 35 VDC 5 A      | –55 °C to +90 °C  | UL                 |
| <a href="#">SF-0402F</a>    |  | 200 % I <sub>F</sub> in 60 sec. | 0.315 A 32 VDC 4 A    | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0402FP</a>   |  | 200 % I <sub>F</sub> in 5 sec.  | 0.5 A 32 VDC 4 A      | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0402FR</a>   |  | 200 % I <sub>F</sub> in 5 sec.  | 0.63 A 32 VDC 5 A     | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0402S</a>    |  | 250 % I <sub>F</sub> in 5 sec.  | 0.5 A 32 VDC 4 A      | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0402S-M</a>  |  | 250 % I <sub>F</sub> in 5 sec.  | 0.5 A 24 VDC 4 A      | –55 °C to +125 °C | UL                 |

### 0603 FOOTPRINT

| Model Series                | Photo                                                                               | Fusing Characteristic                | Rated Current/Voltage              | Rated Temperature | Agency Recognition |
|-----------------------------|-------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|-------------------|--------------------|
| <a href="#">SF-0603FP-F</a> |    | 200 % I <sub>F</sub> in 5 sec.       | 0.15 A 24/35/65 VDC, 24/35 VAC 5 A | –55 °C to +90 °C  | UL                 |
| <a href="#">SF-0603HI-F</a> |    | 200 % I <sub>F</sub> in 60 sec.      | 0.5 A 24/35/65 VDC, 24/35 VAC 4 A  | –55 °C to +90 °C  | UL                 |
| <a href="#">SF-0603F</a>    |   | 200 % I <sub>F</sub> in 60 sec.      | 0.4 A 32/50 VDC 4 A                | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0603FP</a>   |  | 200 % I <sub>F</sub> in 5 sec.       | 0.5 A 32/50 VDC, 32 VAC 5 A        | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0603S</a>    |  | 250 % I <sub>F</sub> in 5 sec.       | 0.4 A 32/50 VDC, 35 VAC 6 A        | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0603SP</a>   |  | 200 % I <sub>F</sub> in 1 – 120 sec. | 0.5 A 63 VDC 6 A                   | –20 °C to +105 °C | UL                 |
| <a href="#">SF-0603SP-R</a> |  | 200 % I <sub>F</sub> in 1 – 120 sec. | 1 A 50/63 VDC 8 A                  | –55 °C to +125 °C | UL                 |
| <a href="#">SF-0603FP-M</a> |  | 200 % I <sub>F</sub> in 5 sec.       | 0.5 A 32 VDC 5 A                   | –55 °C to +125 °C | UL                 |
| <a href="#">SF-0603HI-M</a> |  | 200 % I <sub>F</sub> in 60 sec.      | 1 A 32 VDC 8 A                     | –55 °C to +125 °C | UL                 |
| <a href="#">SF-0603S-M</a>  |  | 250 % I <sub>F</sub> in 5 sec.       | 0.5 A 24/32/63 VDC 6 A             | –55 °C to +125 °C | UL                 |
| <a href="#">SF-0603SP-M</a> |  | 200 % I <sub>F</sub> in 1 – 120 sec. | 1 A 32 VDC 8 A                     | –55 °C to +125 °C | UL                 |

### 1206 FOOTPRINT

| Model Series                | Photo                                                                               | Fusing Characteristic                | Rated Current/Voltage   | Rated Temperature | Agency Recognition |
|-----------------------------|-------------------------------------------------------------------------------------|--------------------------------------|-------------------------|-------------------|--------------------|
| <a href="#">SF-1206F</a>    |  | 200 % I <sub>F</sub> in 60 sec.      | 0.5 A 32/63 VDC 7 A     | –20 °C to +105 °C | UL                 |
| <a href="#">SF-1206FP</a>   |  | 200 % I <sub>F</sub> in 5 sec.       | 0.5 A 32/63 VDC 7 A     | –20 °C to +105 °C | UL                 |
| <a href="#">SF-1206S</a>    |  | 250 % I <sub>F</sub> in 5 sec.       | 0.5 A 32/63 VDC 7 A     | –20 °C to +105 °C | UL                 |
| <a href="#">SF-1206SP</a>   |  | 200 % I <sub>F</sub> in 1 – 120 sec. | 0.5 A 32/63 VDC 7 A     | –20 °C to +105 °C | UL                 |
| <a href="#">SF-1206S-R</a>  |  | 250 % I <sub>n</sub> in 5 sec.       | 10 A 32 VDC 20 A        | –55 to +125 °C    | UL                 |
| <a href="#">SF-1206HH-R</a> |  | 350 % I <sub>n</sub> in 1 sec.       | 8 A 50 VDC, 50 VAC 30 A | –55 to +150 °C    | UL                 |

# Bourns® SinglFuse™ SMD Fuse Product Guide

## GENERAL PURPOSE SINGLFUSE™ SMD FUSES

### 1206 FOOTPRINT (Continued)

| Model Series                | Photo                                                                             | Fusing Characteristic                | Rated Current/Voltage            | Rated Temperature | Agency Recognition |
|-----------------------------|-----------------------------------------------------------------------------------|--------------------------------------|----------------------------------|-------------------|--------------------|
| <a href="#">SF-1206F-M</a>  |  | 200 % I <sub>F</sub> in 60 sec.      | 2.5 A <b>32/48/65 VDC</b> 8 A    | -55 °C to +125 °C | UL                 |
| <a href="#">SF-1206HI-M</a> |  | 200 % I <sub>r</sub> in 60 sec.      | 0.5 A <b>24/32/63/65 VDC</b> 8 A | -55 °C to +125 °C | UL                 |
| <a href="#">SF-1206S-M</a>  |  | 250 % I <sub>F</sub> in 5 sec.       | 0.5 A <b>32/63 VDC</b> 8 A       | -55 °C to +125 °C | UL                 |
| <a href="#">SF-1206SP-M</a> |  | 200 % I <sub>F</sub> in 1 – 120 sec. | 1 A <b>24/32/63 VDC</b> 8 A      | -55 °C to +125 °C | UL                 |
| <a href="#">SF-1206HH-M</a> |  | 350 % I <sub>F</sub> in 5 sec.       | 10 A <b>24 VDC</b> 30 A          | -55 °C to +125 °C | UL                 |
| <a href="#">SF-1206HV-M</a> |  | 350 % I <sub>F</sub> in 5 sec.       | 10 A <b>26/35 VDC</b> 40 A       | -55 °C to +125 °C | UL                 |
| <a href="#">SF-1206S-W</a>  |  | 250 % I <sub>F</sub> in 5 sec.       | 1.5 A <b>32/65 VDC</b> 15 A      | -55 °C to +125 °C | UL / TÜV           |

### 2410 FOOTPRINT

| Model Series                | Photo                                                                               | Fusing Characteristic                | Rated Current/Voltage                     | Rated Temperature | Agency Recognition |
|-----------------------------|-------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|-------------------|--------------------|
| <a href="#">SF-2410FP-W</a> |    | 200 % I <sub>F</sub> in 5 sec.       | 0.5 A <b>32/125 VDC, 125/250 VAC</b> 10 A | -55 °C to +125 °C | UL / TÜV           |
| <a href="#">SF-2410F-W</a>  |   | 200 % I <sub>F</sub> in 20 sec.      | 12 A <b>32/65 VDC, 65 VAC</b> 20 A        | -55 °C to +125 °C | UL                 |
| <a href="#">SF-2410SP-W</a> |  | 200 % I <sub>F</sub> in 1 – 120 sec. | 0.5 A <b>250 VAC</b> 2 A                  | -55 °C to +125 °C | UL / VDE           |
| <a href="#">SF-2410FP-T</a> |  | 200 % I <sub>F</sub> in 5 sec.       | 62 mA <b>125 VAC</b> 10 A                 | -55 °C to +125 °C | UL                 |
| <a href="#">SF-2410F-T</a>  |  | 200 % I <sub>F</sub> in 60 sec.      | 12 A <b>24/65/86 VDC, 65/86 VAC</b> 25 A  | -55 °C to +125 °C | UL                 |
| <a href="#">SF-2410HI-T</a> |  | 200 % I <sub>F</sub> in 60 sec.      | 0.375 A <b>125 VAC</b> 7 A                | -55 °C to +125 °C | UL                 |

### 3812 FOOTPRINT

| Model Series                 | Photo                                                                               | Fusing Characteristic                | Rated Current/Voltage                                  | Rated Temperature | Agency Recognition |
|------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-------------------|--------------------|
| <a href="#">SF-3812FG-T</a>  |  | 200 % I <sub>F</sub> in 60 sec.      | 20 A <b>100VDC, 125VAC</b> 30 A                        | -55 °C to +125 °C | UL                 |
| <a href="#">SF-3812TL-TS</a> |  | 250 % I <sub>F</sub> in 120 sec.     | 0.5 A <b>250 VAC</b> 5 A                               | -55 °C to +125 °C | UL / TÜV           |
| <a href="#">SF-3812SP-T</a>  |  | 200 % I <sub>F</sub> in 120 sec.     | 1.25 A <b>63/125VDC, 63/250/280VAC</b>                 | -55 °C to +125 °C | UL / TÜV           |
| <a href="#">SF-3812F-T</a>   |  | 200 % I <sub>F</sub> in 60 sec.      | 10 A <b>60/72/75/80/100/250VDC, 65/125/250VAC</b> 60 A | -55 °C to +125 °C | UL                 |
| <a href="#">SF-3812TM-T</a>  |  | 250 % I <sub>F</sub> in 1 – 120 sec. | 0.5 A <b>125/250VDC, 250/600VAC</b> 2 A                | -55 °C to +125 °C | UL                 |

### 2923 FOOTPRINT

| Model Series                | Photo                                                                               | Fusing Characteristic           | Rated Current/Voltage   | Rated Temperature | Agency Recognition |
|-----------------------------|-------------------------------------------------------------------------------------|---------------------------------|-------------------------|-------------------|--------------------|
| <a href="#">SF-2923HC-C</a> |  | 250 % I <sub>F</sub> in 60 sec. | 20 A <b>60 VDC</b> 50 A | -55 °C to +125 °C | UL                 |

# Bourns® SinglFuse™ SMD Fuse Product Guide

## AUTOMOTIVE GRADE\* SINGLFUSE™ SMD FUSES



### 0603 FOOTPRINT

| Model Series                 | Photo | Fusing Characteristic                | Rated Current/Voltage  | Rated Temperature | Agency Recognition |
|------------------------------|-------|--------------------------------------|------------------------|-------------------|--------------------|
| <a href="#">SF-0603SPA-R</a> |       | 200 % I <sub>r</sub> in 1 – 120 sec. | 1 A 50/63 VDC 8 A      | –55 °C to +150 °C | UL / TÜV           |
| <a href="#">SF-0603HIA-M</a> |       | 200 % I <sub>r</sub> in 1 – 60 sec.  | 1 A 32 VDC 5 A         | –55 °C to +125 °C | UL                 |
| <a href="#">SF-0603SA-M</a>  |       | 250 % I <sub>r</sub> in 5 sec.       | 0.5 A 24/32/65 VDC 8 A | –55 °C to +150 °C | UL                 |

### 1206 FOOTPRINT

| Model Series                 | Photo | Fusing Characteristic           | Rated Current/Voltage     | Rated Temperature | Agency Recognition |
|------------------------------|-------|---------------------------------|---------------------------|-------------------|--------------------|
| <a href="#">SF-1206SA-R</a>  |       | 250 % I <sub>r</sub> in 5 sec.  | 10 A 32 VDC 20 A          | –55 °C to +150 °C | UL                 |
| <a href="#">SF-1206HHA-R</a> |       | 350 % I <sub>r</sub> in 1 sec.  | 8 A 50 VDC, 50 VAC 30 A   | –55 °C to +125 °C | UL                 |
| <a href="#">SF-1206HIA-M</a> |       | 200 % I <sub>r</sub> in 60 sec. | 0.5 A 24/32/63/65 VDC 6 A | –55 °C to +150 °C | UL                 |
| <a href="#">SF-1206SA-M</a>  |       | 250 % I <sub>r</sub> in 5 sec.  | 0.5 A 65 VDC 5 A          | –55 °C to +150 °C | UL                 |
| <a href="#">SF-1206SA-W</a>  |       | 250 % I <sub>r</sub> in 5 sec.  | 1.5 A 32/65/110 VDC 15 A  | –55 °C to +125 °C | UL                 |

### 2410 FOOTPRINT

| Model Series                 | Photo | Fusing Characteristic           | Rated Current/Voltage   | Rated Temperature | Agency Recognition |
|------------------------------|-------|---------------------------------|-------------------------|-------------------|--------------------|
| <a href="#">SF-2410FPA-W</a> |       | 200 % I <sub>r</sub> in 5 sec.  | 1 A 32/125/250 VDC 10 A | –55 °C to +125 °C | UL                 |
| <a href="#">SF-2410FA-W</a>  |       | 200 % I <sub>r</sub> in 20 sec. | 12 A 32/65 VDC 20 A     | –55 °C to +125 °C | UL                 |

\* Meets AEC-Q200 Revision E.

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