

# Surface Mount Fuses

## Slow-Blow Chip Fuses

Table FS1 — Clear Time Characteristics

### 0603SFS Series

| % of Rated Current | Clear Time at 25°C |              |
|--------------------|--------------------|--------------|
| 100%               | 4 hrs (min)        | —            |
| 200%               | 1 s (min)          | 120 s (max)  |
| 300%               | 0.1 s (min)        | 3 s (max)    |
| 800% (1.0A-1.5A)   | 0.0005 s (min)     | 0.05 s (max) |
| 800% (2.0A-5.0A)   | 0.001 s (min)      | 0.05 s (max) |

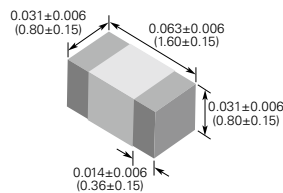
### 1206SFS Series

| % of Rated Current | Clear Time at 25°C |              |
|--------------------|--------------------|--------------|
| 100%               | 4 hrs (min)        | —            |
| 200%               | 1 s (min)          | 120 s (max)  |
| 300%               | 0.1 s (min)        | 3 s (max)    |
| 800% (1.0A-1.5A)   | 0.0016 s (min)     | 0.05 s (max) |
| 800% (2.0A-8.0A)   | 0.002 s (min)      | 0.05 s (max) |

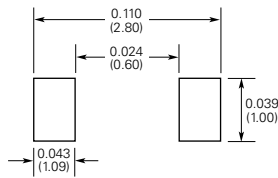
Table FS2 — Typical Electrical Characteristics, Dimensions and Recommended Pad Layout

### 0603 (1608 mm) Slow-Blow Chip Fuses

Shape and Dimensions  
in (mm)

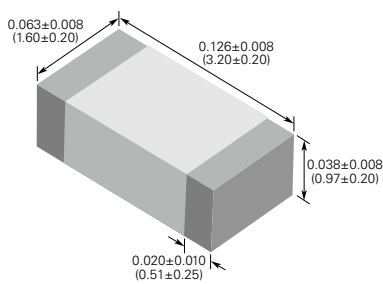


Recommended Pad Layout  
in (mm)

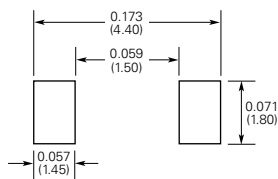


### 1206 (3216 mm) Slow-Blow Chip Fuses

Shape and Dimensions  
in (mm)



Recommended Pad Layout  
in (mm)



| Part Number    | Typical                    |                       |                                                | Max                        |             |
|----------------|----------------------------|-----------------------|------------------------------------------------|----------------------------|-------------|
|                | Electrical Characteristics |                       |                                                | Interrupt Ratings          |             |
|                | Rated Current (A)          | Nominal Cold DCR (Ω)* | Nominal I <sup>2</sup> t (A <sup>2</sup> sec)† | Voltage (V <sub>DC</sub> ) | Current (A) |
| 0603SFS100F/32 | 1.0                        | 0.200                 | 0.093                                          | 32                         | 50          |
| 0603SFS150F/32 | 1.5                        | 0.100                 | 0.18                                           | 32                         | 50          |
| 0603SFS200F/32 | 2.0                        | 0.052                 | 0.32                                           | 32                         | 50          |
| 0603SFS250F/32 | 2.5                        | 0.041                 | 0.63                                           | 32                         | 50          |
| 0603SFS300F/32 | 3.0                        | 0.031                 | 0.87                                           | 32                         | 50          |
| 0603SFS350F/32 | 3.5                        | 0.021                 | 1.20                                           | 32                         | 50          |
| 0603SFS400F/32 | 4.0                        | 0.017                 | 2.30                                           | 32                         | 50          |
| 0603SFS450F/32 | 4.5                        | 0.015                 | 2.70                                           | 32                         | 50          |
| 0603SFS500F/32 | 5.0                        | 0.013                 | 3.20                                           | 32                         | 50          |
| PSR-27781      | 6.0                        | 0.010                 | 4.00                                           | 32                         | 80          |
| PSR-27893      | 7.0                        | 0.008                 | 5.00                                           | 32                         | 80          |
| PSR-28024      | 8.0                        | 0.006                 | 7.00                                           | 32                         | 80          |

| Part Number    | Typical                    |                       |                                                | Max                        |             |
|----------------|----------------------------|-----------------------|------------------------------------------------|----------------------------|-------------|
|                | Electrical Characteristics |                       |                                                | Interrupt Ratings          |             |
|                | Rated Current (A)          | Nominal Cold DCR (Ω)* | Nominal I <sup>2</sup> t (A <sup>2</sup> sec)† | Voltage (V <sub>DC</sub> ) | Current (A) |
| 1206SFS100F/63 | 1.0                        | 0.360                 | 0.11                                           | 63                         | 50          |
| 1206SFS125F/63 | 1.25                       | 0.200                 | 0.22                                           | 63                         | 50          |
| 1206SFS150F/63 | 1.5                        | 0.150                 | 0.23                                           | 63                         | 50          |
| 1206SFS200F/63 | 2.0                        | 0.088                 | 0.63                                           | 63                         | 50          |
| 1206SFS250F/32 | 2.5                        | 0.065                 | 0.90                                           | 32                         | 50          |
| 1206SFS300F/32 | 3.0                        | 0.034                 | 1.20                                           | 32                         | 50          |
| 1206SFS350F/32 | 3.5                        | 0.028                 | 1.60                                           | 32                         | 50          |
| 1206SFS400F/32 | 4.0                        | 0.024                 | 2.20                                           | 32                         | 50          |
| 1206SFS450F/32 | 4.5                        | 0.020                 | 3.60                                           | 32                         | 50          |
| 1206SFS500F/32 | 5.0                        | 0.016                 | 5.30                                           | 32                         | 50          |
| 1206SFS550F/24 | 5.5                        | 0.014                 | 6.40                                           | 24                         | 50          |
| 1206SFS600F/24 | 6.0                        | 0.011                 | 8.50                                           | 24                         | 60          |
| 1206SFS700F/24 | 7.0                        | 0.010                 | 10.00                                          | 24                         | 60          |
| 1206SFS800F/24 | 8.0                        | 0.009                 | 16.90                                          | 24                         | 60          |

\* Measured at ≤10% of rated current and 25°C ambient temperature.

† Melting I<sup>2</sup>t at 0.001 sec clear time.

Figures FS1-FS6 — Family Performance Curves

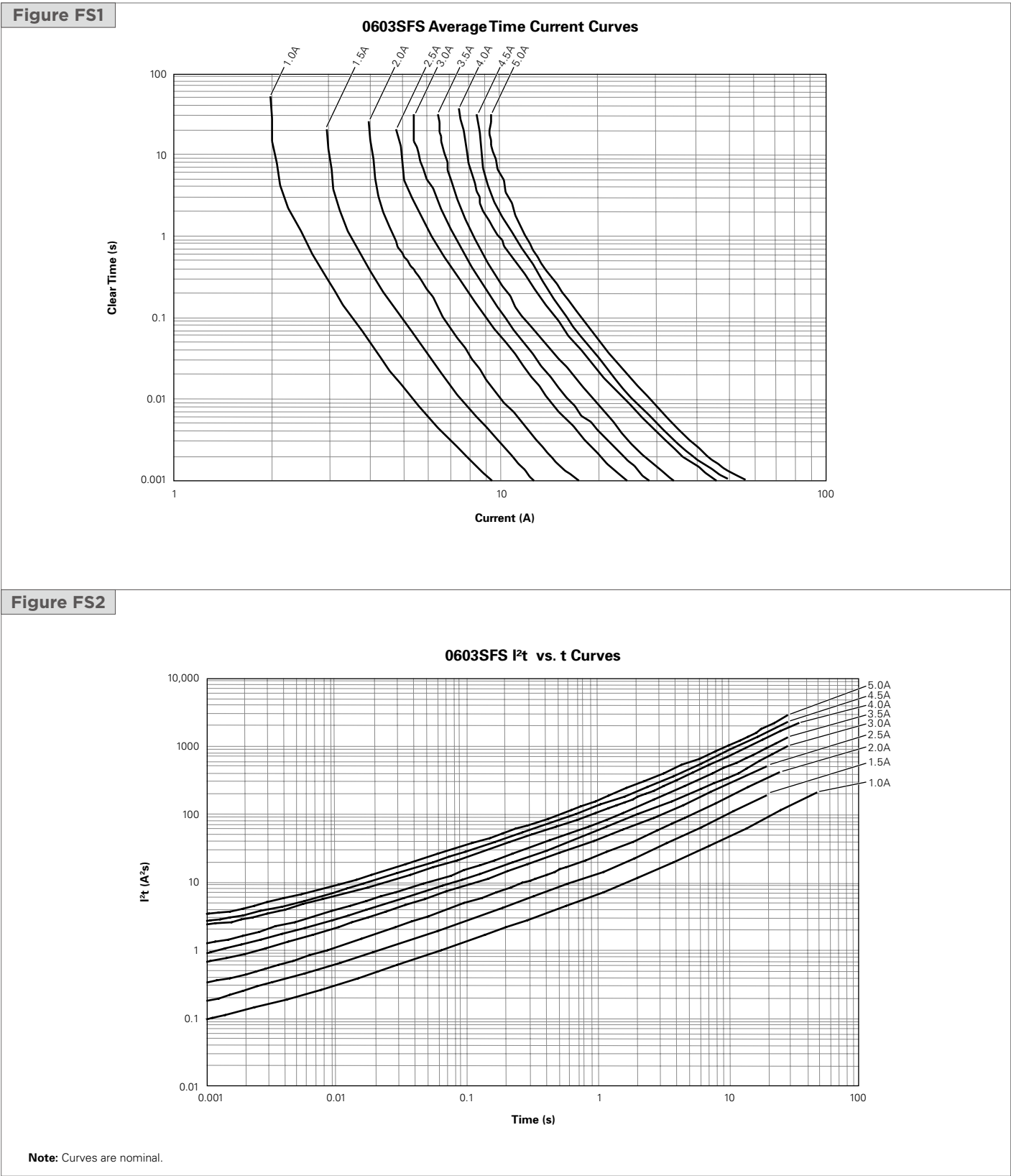


Figure FS3

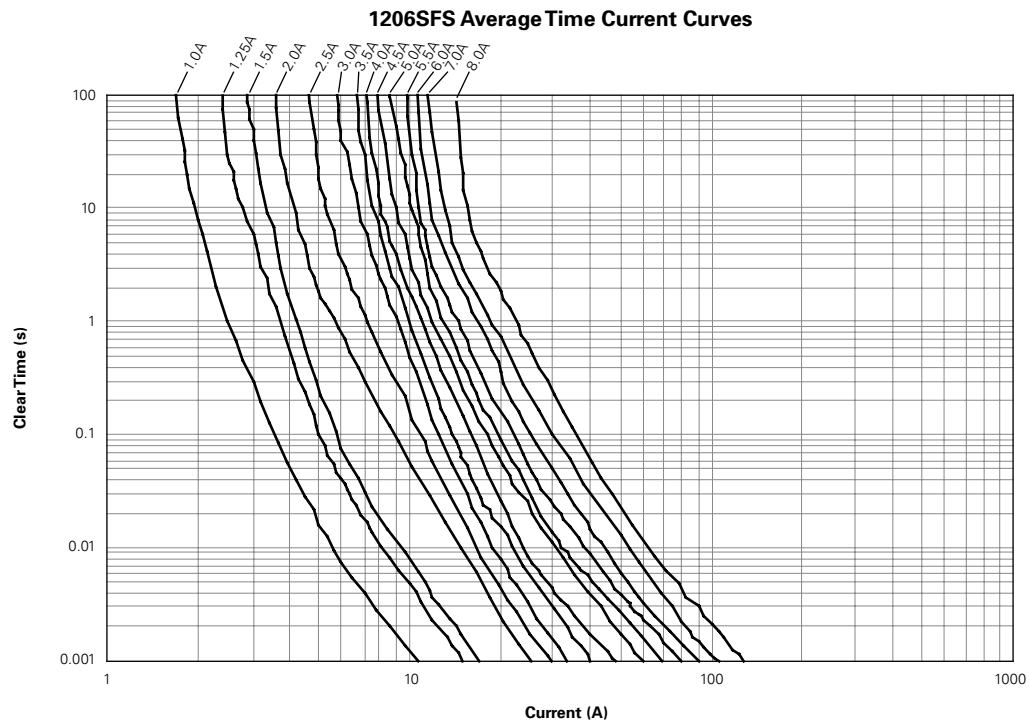
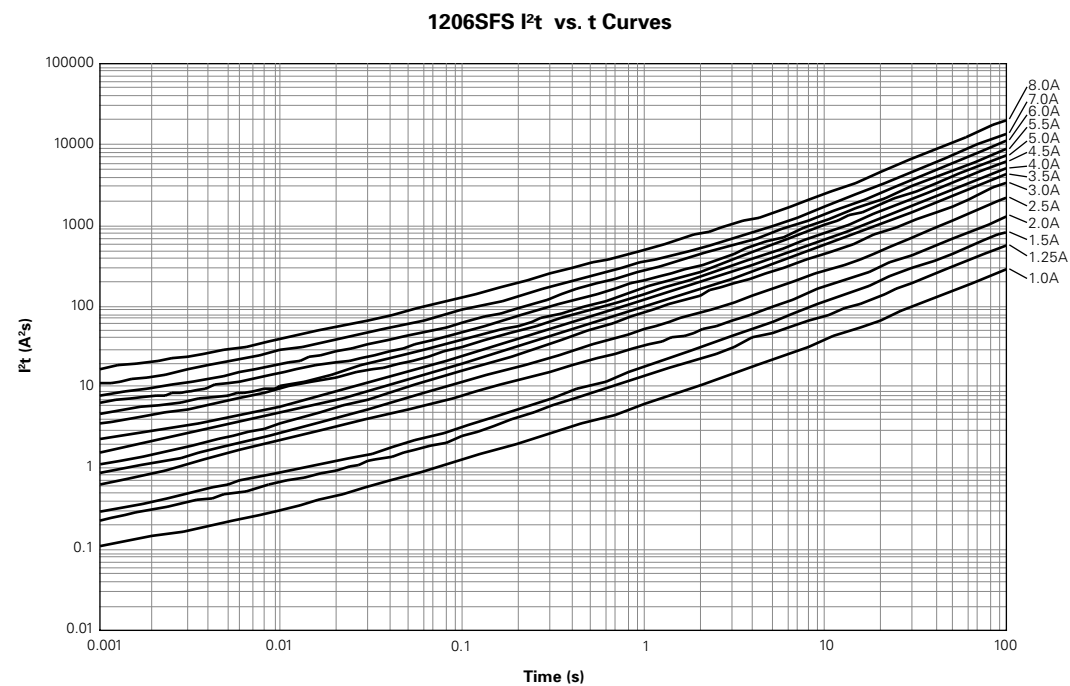


Figure FS4



Note: Curves are nominal.

➔ Please go to page 108 for more information about Slow-Blow Chip Fuses.

Figure FS5

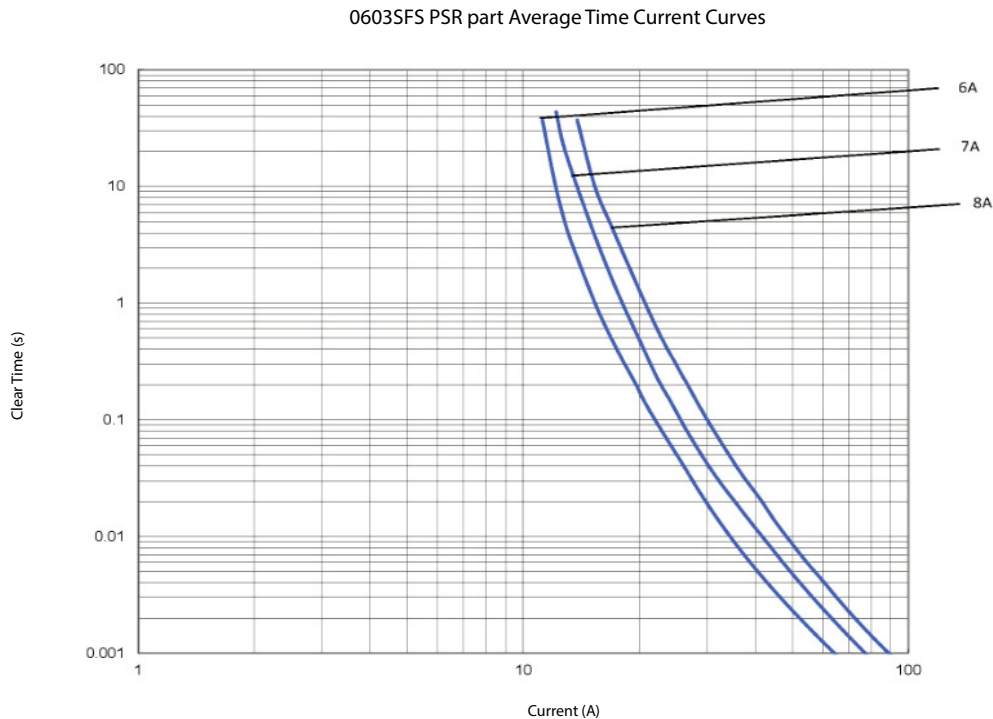
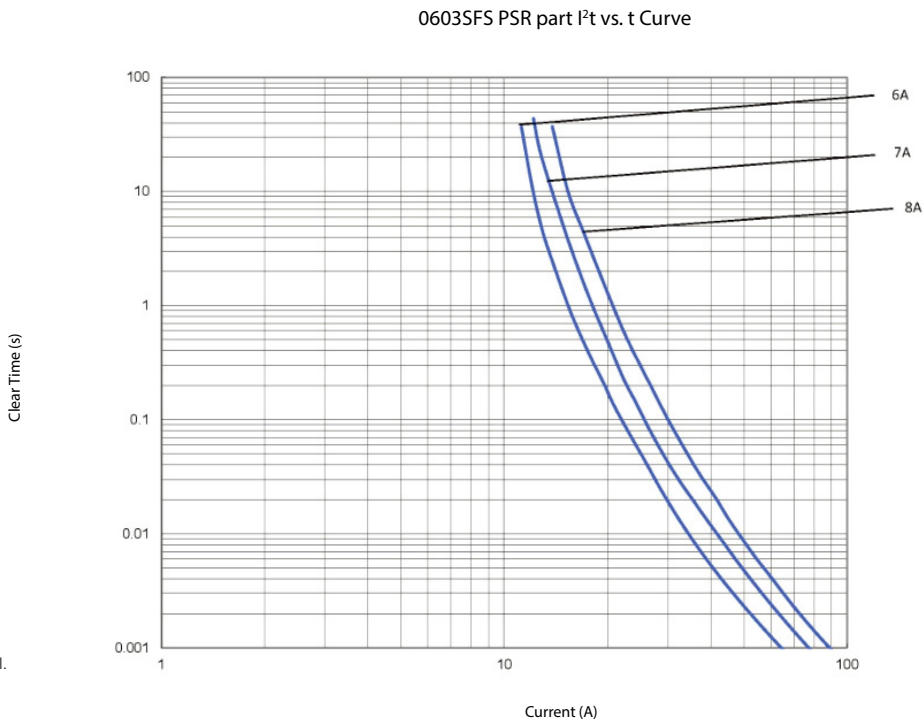


Figure FS6



Note: Curves are nominal.

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