

# SURFACE-MOUNT FUSES

## High-Current-Rated Chip Fuses

The monolithic multilayer design of the Littelfuse high-current-rated chip fuses helps to provide some of the highest current ratings available in the 1206 size and enhances high-temperature performance in a wide range of circuit protection designs. The devices' small size, high reliability and strong arc suppression characteristics make them suitable for overcurrent protection of power supplies, servers, communications equipment, voltage regulator modules, and other high current, small size applications.



### BENEFITS

- Glass ceramic monolithic structure provides stability in application cycling
- High-current rating in a small package allows more efficient use in system space
- Strong arc suppression in overcurrent conditions

### FEATURES

- Lead-free materials and RoHS compliant
- Halogen free  
(refers to: Br $\leq$ 900ppm, Cl $\leq$ 900ppm, Br+Cl $\leq$ 1500ppm)
- Monolithic multilayer design
- High-temperature performance
- -55°C to +150°C operating temperature range

### APPLICATIONS

- Communications equipment
- Voltage regulator modules
- Power supplies
- Servers

# Surface Mount Fuses

## Pulse Tolerant Chip Fuses

### Table FH1 – Clear Time Characteristics

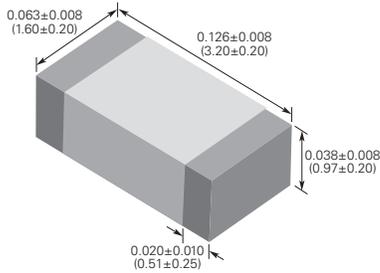
#### 1206SFH Series

% of Rated Current	Clear Time at 25°C
100%	4 hrs (min)
250% (10-20A)	5 s (max)
350% (25-30A)	5 s (max)

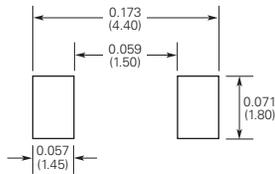
### Table FH2 – Typical Electrical Characteristics, Dimensions and Recommended Pad Layout

#### 1206 (3216mm) High-Current-Rated Chip Fuses

Shape and Dimensions  
in (mm)



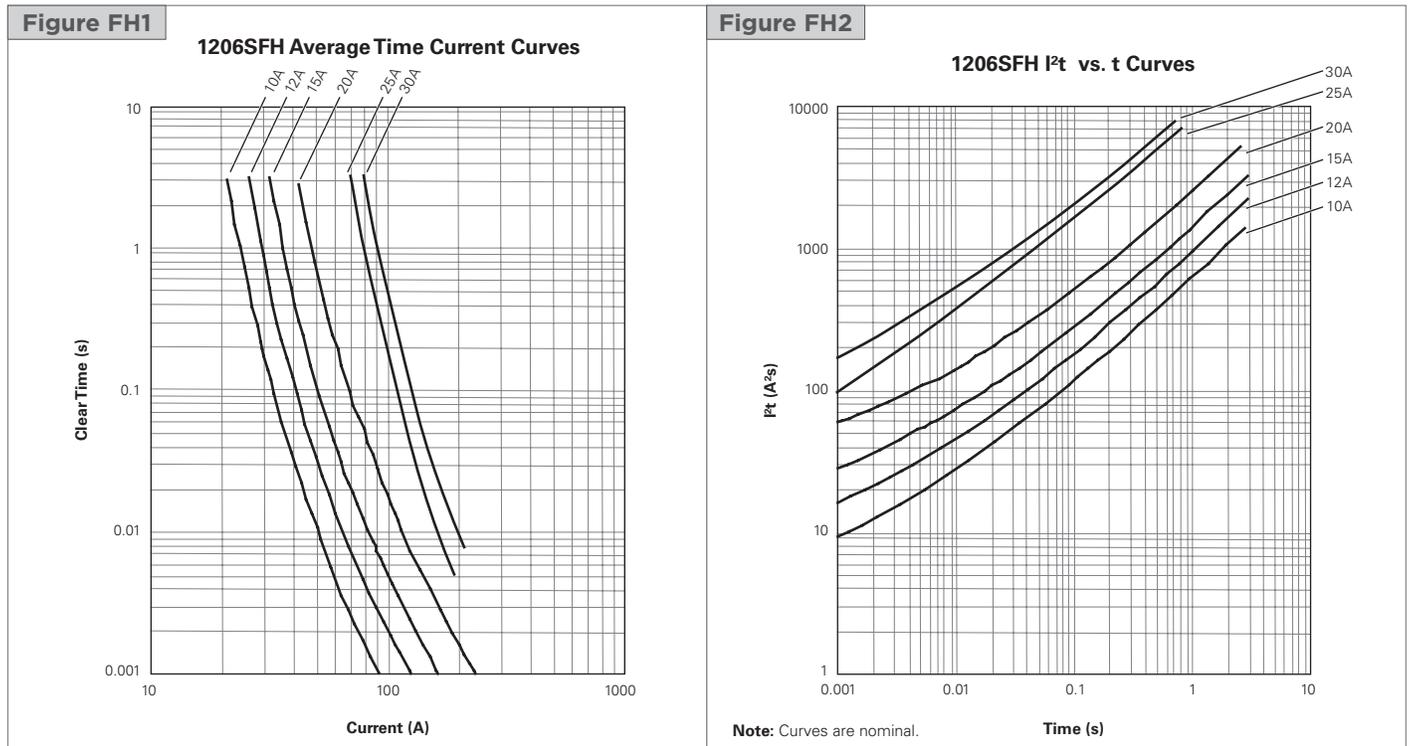
Recommended Pad Layout  
in (mm)



Part Number	Typical Electrical Characteristics			Max Interrupt Ratings	
	Rated Current (A)	Nominal Cold DCR (Ω)*	Nominal I <sup>2</sup> t (A <sup>2</sup> sec) <sup>†</sup>	Voltage (V <sub>DC</sub> )	Current (A)
1206SFH100F/24	10	0.010	9	24	100
1206SFH120F/24	12	0.008	14	24	100
1206SFH150F/24	15	0.005	26	24	100
1206SFH200F/24	20	0.003	56	24	100
1206SFH250F/24	25	0.0016	187	24	250
1206SFH300F/24	30	0.0012	270	24	300

\* Measured at ≤10% of rated current and 25°C ambient temperature.  
† Melting I<sup>2</sup>t at 0.001 sec clear time.

### Figures FH1-FH2 – Family Performance Curves



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