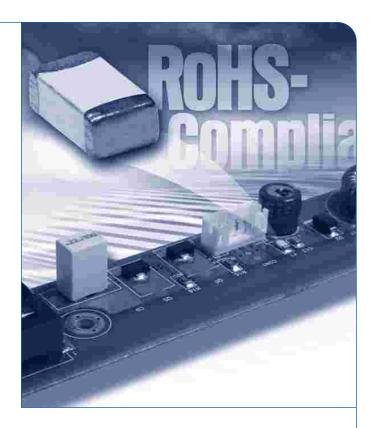


RoHS-compliant Slow Blow Fuses feature industry standard 1206 chip sizes, high reliability and strong arc suppression characteristics. The fuse's monolithic, multilayer design helps provide some of the highest current ratings available in the 1206 footprint and enhances high temperature performance in a wide range of circuit protection designs. Designed for DC power applications of up to 63V_{DC} such as protection of power supplies, capacitor filter banks, LCD backlight inverters, electric motors and portable electronics.



Benefits

- Time delayed design prevents nuisance openings in pulsed and high inrush current applications
- Small size with high current ratings
- Strong arc suppression characteristics

Features

- RoHS compliant
- Monolithic multilayer design
- High temperature performance
- -55°C to +125°C operating temperature range

Applications

- Small motors systems
- Portable electronics
- Input power ports

- Power over Ethernet (POE)
- Test Equipment
- POL Converter Protection
- Computer drives
- Displays
- Printers

Table FS1 - Clear Time Characteristics for Slow Blow Fuses

% of Current Rating	Clear tim	e at 25°C
100%	4 hours (min.)	
200%	1 second (min.)	120 seconds (max.)
300%	0.1 second (min.)	3 seconds (max.)
800%	0.002 second (min.)	0.05 seconds (max.)

Table FS2 - Interrupt Ratings for Slow Blow Fuses

Interrupt Ratings:

1A – 5.5A 50A @ rated voltage	
6A – 8.0A 60A @ rated voltage	

Table FS3 - Typical Electrical Characteristics, Dimensions and Recommended Pad Layout for Slow Blow Fuses

1206 (3216mm) Slow Blow Fuses	Part Number		l Electrical cteristics*		
$\begin{array}{c} \text{Shape and} \\ \text{Dimensions} \\ \text{Inch (mm)} \end{array} \hspace{0.5cm} \stackrel{0.063 \pm 0.008}{(1.60 \pm 0.20)} \\ \begin{array}{c} 0.126 \pm 0.008 \\ (3.20 \pm 0.20) \end{array} \end{array}$		Rated Current (A)	Nominal Cold DCR (Ω)*	Nominal I ² t (A ² sec) [†]	Voltage (V _{DC})
	1206SFS100F/63	1.0	0.360	0.11	
Ť.	1206SFS125F/63	1.25	0.200	0.22	63
	B ± 0.008 7 ± 0.20) 1206SFS150F/63	1.5	0.150	0.23	03
t.	1206SFS200F/63	2.0	0.082	0.63	
	1206SFS250F/32	2.5	0.070	0.90	
0.020 ± 0.010	1206SFS300F/32	3.0	0.032	1.20	
(0.51 ± 0.25)	1206SFS350F/32	3.5	0.028	1.60	22
	1206SFS400F/32	4.0	0.024	2.20	32
Recommended 0.173	1206SFS450F/32	4.5	0.020	3.60	
Pad layout (4.40)	1206SFS500F/32	5.0	0.016	5.30	
	1206SFS550F/24	5.5	0.014	6.40	
	1206SFS600F/24	6.0	0.011	8.50	24
0.071 (1.80)		7.0	0.010	10.00	24
	1206SFS800F/24	8.0	0.009	16.90	
→ 0.057 (1.45)	* Measured at 10% of r [†] Melting I ² t at 0.001 se		5°C		

Table FS4 - Environmental and Material Specifications for Slow Blow Fuses

Environmental Specifications

Operating Temperature	-55°C to +125°C
Mechanical Vibration	Withstands 5-3000 Hz at 30 Gs when evaluated per Method 204 of MIL-STD-202
Mechanical Shock	Withstands 1500 Gs, 0.5 millisecond half-sine pulses when evaluated per Method 213 of MIL-STD-202
Thermal Shock	Withstands 100 cycles from -65°C to +125°C when evaluated per Method 107 of MIL-STD-202
Resistance to Soldering Heat	Withstands 60 seconds at +260°C when evaluated per Method 210 of MIL-STD-202
Solderbility	Meets 95% minimum coverage requirement when evaluated per Method 208 of MIL-STD-202
Moisture Resistance	Withstands 10 cycles when evaluated per Method 106 of MIL-STD-202
Salt Spray	Withstands 48-hour exposure when evaluated per Method 101 of MIL-STD-202

Material Specifications

Construction Body Material	Ceramic
Termination Material	Silver, Nickel, Tin
Fuse Element	Silver
Terminal Strength: Hanging test	1.5kg, 30 seconds

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Table FS4 - Environmental and Material Specifications for Slow Blow Fuses

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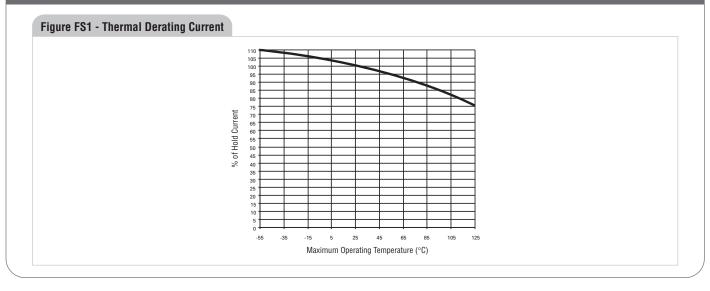
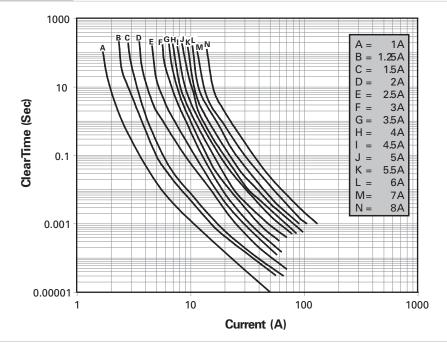


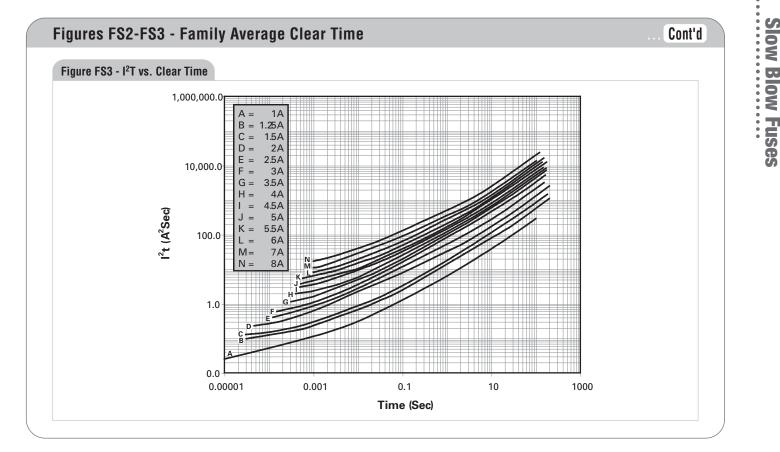
Table FS5 - Electrical and Packaging Specifications for Slow Blow Fuses

Electrical Specifications		
Insulation Resistance after Opening:		g under low voltage conditions may result in lower post-clearing laychem fuses provide sufficient insulation resistance for
Current Carrying Capacity:	Withstands 100% rated current at +25°C ambient	t for 4 hours when evaluated per MIL-PRF-23419
Packaging Specifications		
Chip Size	Parts on 7-inch (178 mm) Reel	

Figures FS2-FS3 - Family Average Clear Time

Figure FS2 - Average Clear Time

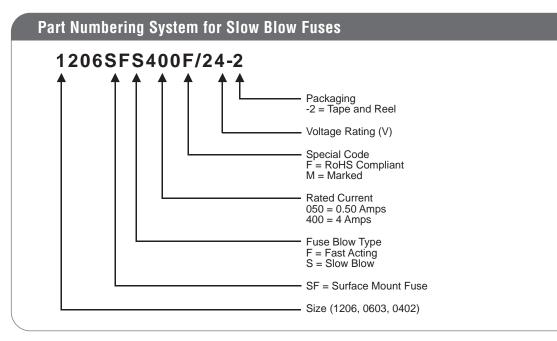




Agency Approvals for Slow Blow Fuses

UL

File # E197536



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