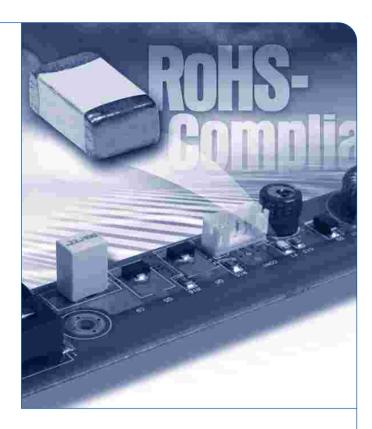


RoHS-compliant Slow Blow Fuses feature industry standard 1206 chip sizes, high reliability and strong arc suppression characteristics. The fuse's monolithic, multilayer design helps provide some of the highest current ratings available in the 1206 footprint and enhances high temperature performance in 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

Slow Blow Fuses

Table FS1 - Clear Time Characteristics for Slow Blow Fuses

% of Current Rating	g 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:

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

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

1206 (3216m)	m) Slow Blow Fuses	Part Number		l Electrical cteristics*		
	33 ± 0.008 50 ± 0.20) 0.126 ± 0.008 (3.20 ± 0.20)		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
	$\begin{array}{c} 0.038 \pm 0.008 \\ (0.97 \pm 0.20) \end{array}$	1206SFS150F/63	1.5	0.150	0.23	03
	4	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	32
		1206SFS400F/32	4.0	0.024	2.20	32
Recommended	0.173	1206SFS450F/32	4.5	0.020	3.60	
Pad layout Inch (mm)	(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)	1206SFS700F/24	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

Table FS4 - Environmental and Material Specifications for Slow Blow Fuses

... Cont'd

Figure FS1 - Thermal Derating Current

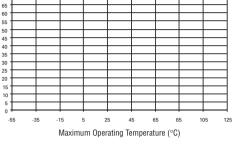


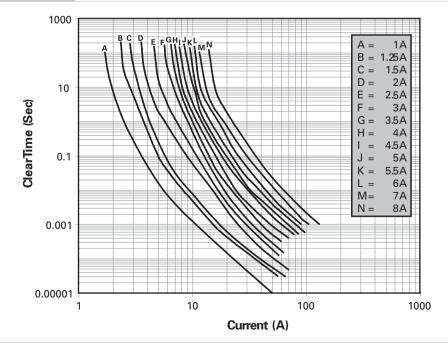
Table FS5 - Electrical and Packaging Specifications for Slow Blow Fuses

Electrical	Specifications
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Insulation Resistance after Opening	$: 20,000\Omega$ minimum @ rated voltage. Fuse clearing under low voltage conditions may result in lower post-clearing
	insulation values. Under normal fault conditions Raychem fuses provide sufficient insulation resistance for
	circuit protection.
Current Corruing Consoitu	Withstands 100% rated current at +25°C ambient for 4 hours when evaluated per MIL-PRF-23419
Current Carrying Capacity:	Withstands 100% fated current at +25°C ambient for 4 hours when evaluated per Mil-PRF-23419
Packaging Specifications	Withstands 100% rated current at +25°C ambient for 4 hours when evaluated per MiL-PAF-23419
, , , ,	Parts on 7-inch (178 mm) Reel

Figures FS2-FS3 - Family Average Clear Time

Figure FS2 - Average Clear Time



Figures FS2-FS3 - Family Average Clear Time Cont'd Figure FS3 - I²T vs. Clear Time 1,000,000.0 1A .25A В 1.5A C D 2A 2.5A 10,000.0 ЗA G 3.5A 4A 4.5A l²t (A²Sec) 5A 5.5A 100.0 6A 7A M= 8A N 1.0 0.0 0.00001 0.001 0.1 10 1000 Time (Sec)

Agency Approvals for Slow Blow Fuses

UL F

File # E197536

Part Numbering System for Slow Blow Fuses 1206SFS400F/24-2 Packaging -2 = Tape and Reel Voltage Rating (V) Special Code F = RoHS Compliant M = Marked Rated Current

- Fuse Blow Type F = Fast Acting S = Slow Blow
- S = Slow Blow SF = Surface Mount Fuse Size (1206, 0603, 0402)

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 TR-3216FF4-R
 SST 1-1K
 SST 5 -1K
 SST 2-1K
 TR2-TCP500-R
 F60C500V12AS
 FCC16501ABTP
 FCC16102ABTP
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 0308.250UR
 0308.375UR
 0308.500UR
 0308.750UR
 0308001.UR
 030801.5UR
 FCC16202ABTP
 3-122-714
 3-122-720
 3-122-718
 3-122

 712
 3-122-716
 03081.25UR
 CQ06LF 5A 32V
 CQ06LT 5A 32V
 SET 2A 125V (G)
 SET 1A 125V (G)
 SEF 10A 125V (G)
 SEF 3A 125V (G)

 SEF 4A 125V (G)
 SEF 7A 125V (G)
 SET 4A 125V (G)
 SET 3A 125V (G)
 SET 7A 125V (G)

 F0603G0R03FNTR
 SKY87604-12
 SKY87604-11
 SKY87604-13
 0154002.DRL
 0154008.DRL
 0154.125DRL