

Raychem Slow Blow Surface-mount Fuses



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

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

Applications

- Small motors systems
- Portable electronics
- Input power ports
- Computer drives
- Displays
- Printers

Agency Approvals

- UL File# E197536

Clear Time Characteristics (Slow Blow):

% of Current Rating	Clear time 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.)

Interrupt Ratings:

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

Shape and Dimensions Inch (mm)

Recommended Land Patterns Inch (mm)

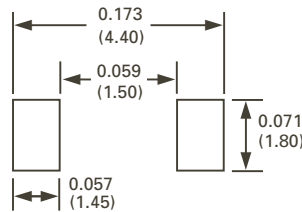
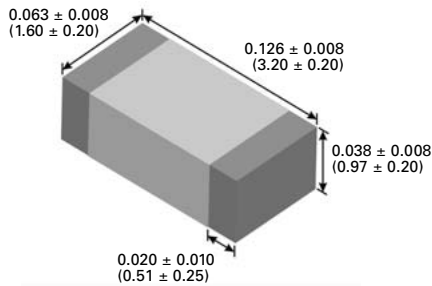
Part Number

Rated Current (A)

Nominal Cold DCR (Ω)¹

Nominal I²t (A²sec)²

Voltage (V_{DC})



1. Measured at 10% of rated current and 25°C
2. Melting I²t at 0.001 sec clear time

1206 (3216mm) Slow Blow Surface-mount Fuses

1206SFS100F/63	1.0	0.360	0.11	63
1206SFS125F/63	1.25	0.200	0.22	
1206SFS150F/63	1.5	0.150	0.23	
1206SFS200F/63	2.0	0.082	0.63	32
1206SFS250F/32	2.5	0.070	0.90	
1206SFS300F/32	3.0	0.032	1.20	
1206SFS350F/32	3.5	0.028	1.60	
1206SFS400F/32	4.0	0.024	2.20	24
1206SFS450F/32	4.5	0.020	3.60	
1206SFS500F/32	5.0	0.016	5.30	
1206SFS550F/24	5.5	0.014	6.40	
1206SFS600F/24	6.0	0.011	8.50	
1206SFS700F/24	7.0	0.010	10.00	
1206SFS800F/24	8.0	0.009	16.90	

Environmental Specifications

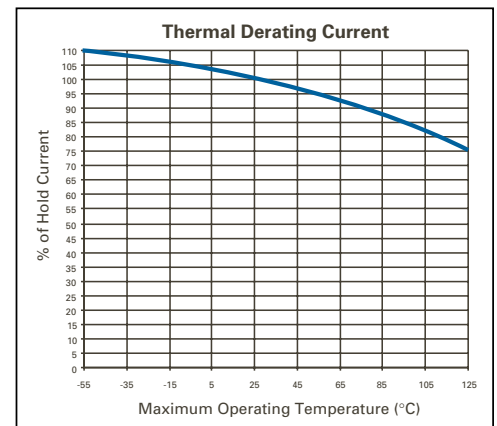
Operating Temperature:	-55°C to +125°C
Mechanical Vibration:	Withstands 5-3000 Hz at 30 Gs when evaluated per Method 204 of MIL-STD-202
Mechanical Shock:	Withstands 1500 Gs, 0.5 millisecond half-sine pulses when evaluated per Method 213 of MIL-STD-202
Thermal Shock:	Withstands 100 cycles from -65°C to +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
Solderability:	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

Electrical Specifications

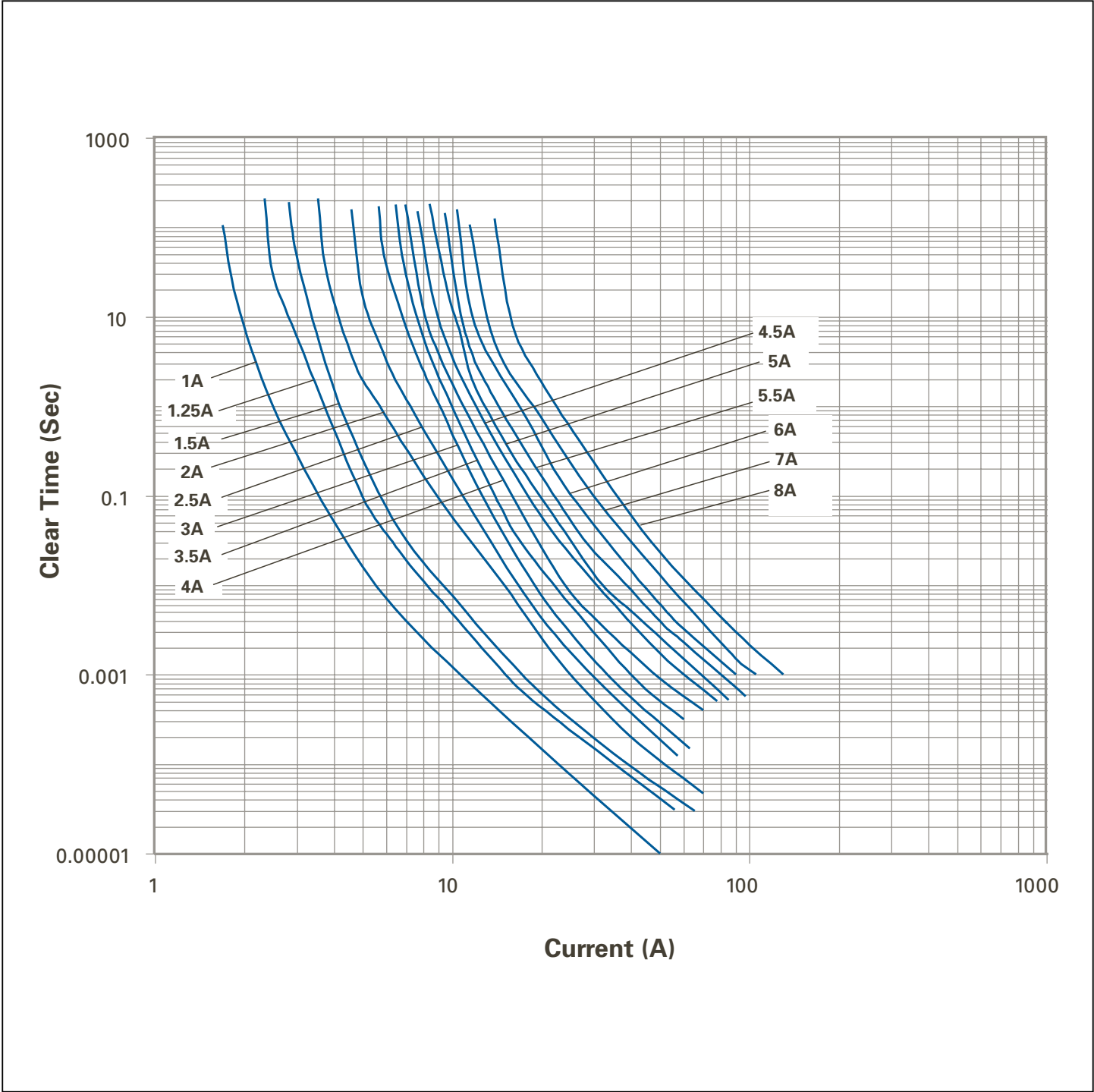
Insulation Resistance after Opening:	20,000Ω minimum @ rated voltage. Fuse clearing under low voltage conditions may result in lower post-clearing insulation values. Under normal fault conditions Raychem fuses provide sufficient insulation resistance for circuit protection.
Current Carrying Capacity:	Withstands 100% rated current at +25°C ambient for 4 hours when evaluated per MIL-PRF-23419



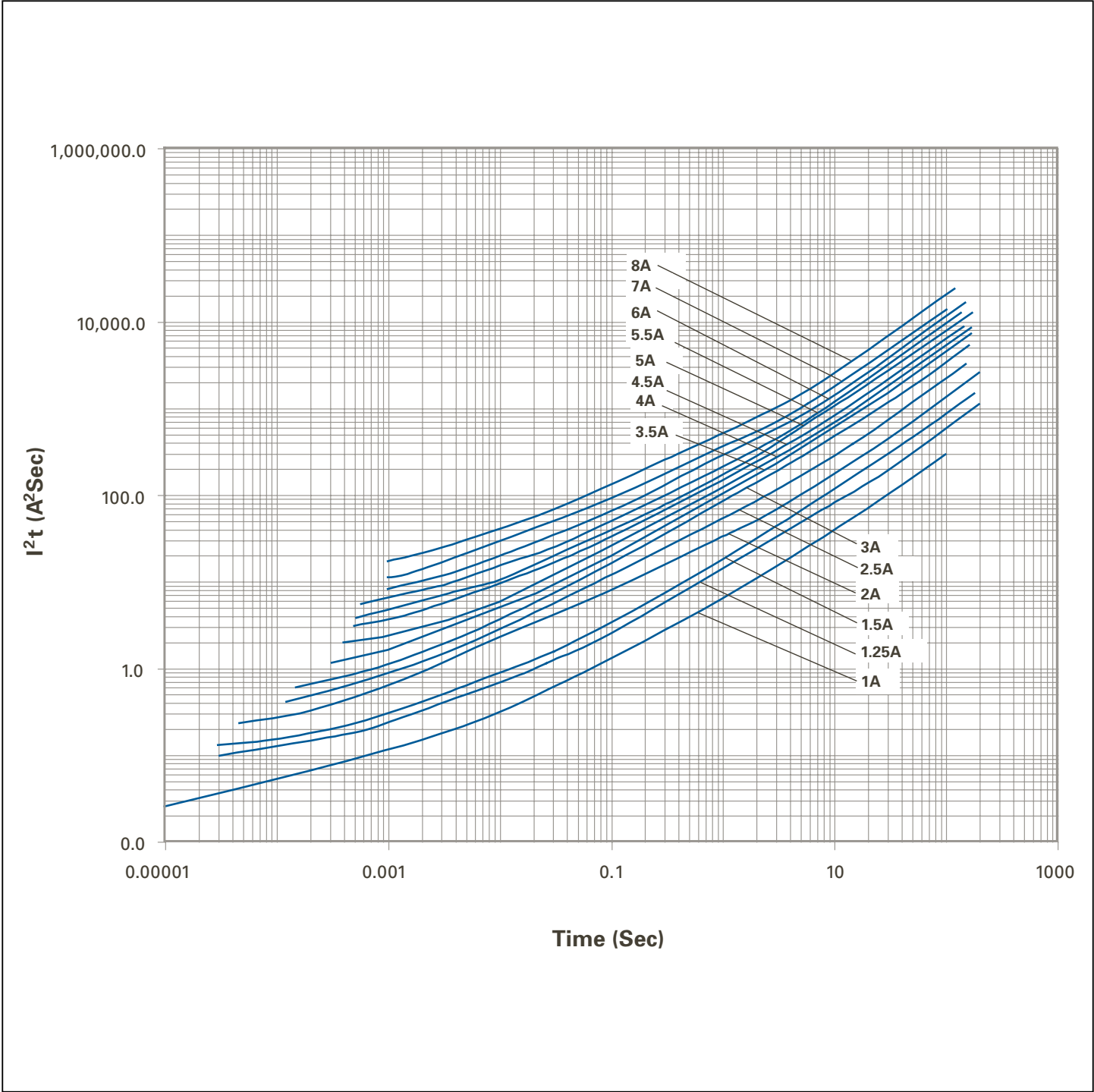
Packaging Specifications

Chip Size	Parts on 7-inch (178 mm) Reel
1206 (3216)	3,000

Average Clear Time



FT vs. Clear Time



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