

Raychem Fast Acting Surface-Mount Fuses



Benefits

- Small size with high current ratings
- Excellent temperature stability
- High reliability and resilience
- Strong arc suppression characteristics

Features

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

Applications

- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD displays
- Scanners

Clear Time Characteristics (Fast Acting):

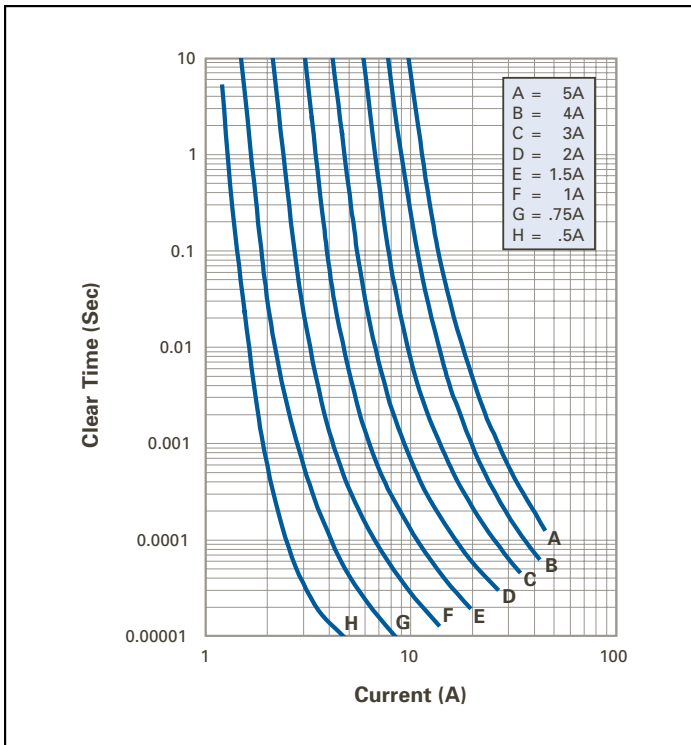
% of rated current	Clear time at 25°C
100%	4 hours min.
250%	5 seconds max.
400%	0.05 seconds max.

Agency Approvals:

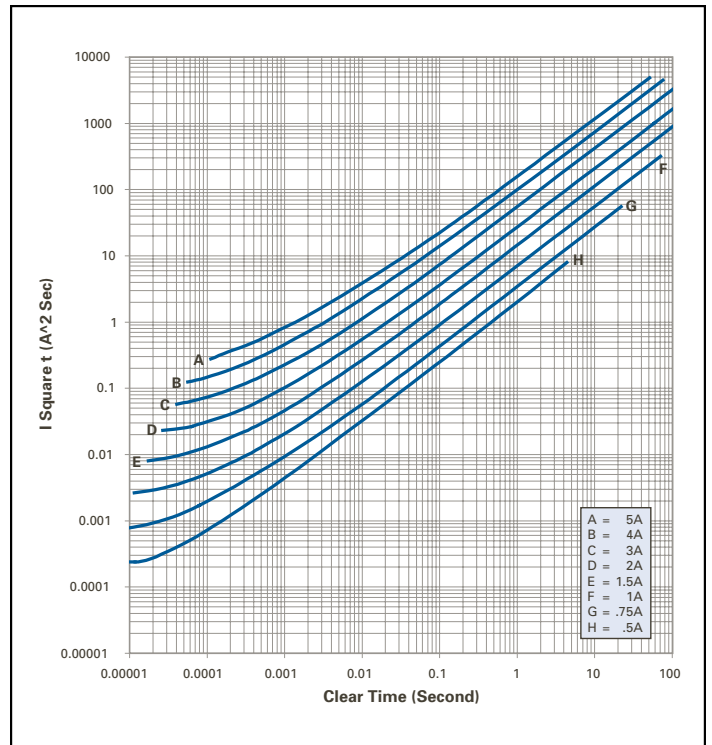
UL File# E197536

Family	Shape and Dimensions Inch (mm)	Recommended Land Patterns Inch (mm)	Part Number	Typical Electrical Characteristics ¹		Max Interrupt Ratings ¹	
				Rated Current (A)	Nominal Cold DCR ² (Ω)	Voltage (V _{DC})	Current (A)
0402 (1005mm) Fast Acting Surface-mount Chip Fuses			Coming Soon 0402SFF025F/24	0.25	TBD	24	35
			Coming Soon 0402SFF038F/24	0.38	TBD		
			0402SFF050F/24	0.50	0.380		
			0402SFF075F/24	0.75	0.210		
			0402SFF100F/24	1.00	0.120		
			0402SFF150F/24	1.50	0.056		
			0402SFF200F/24	2.00	0.035		
			0402SFF300F/24	3.00	0.021		
			0402SFF400F/24	4.00	0.014		
			0603 (1608mm) Fast Acting Surface-mount Chip Fuses				
Coming Soon 0603SFF038F/32	0.38	TBD					
0603SFF050F/32	0.50	0.485					
0603SFF075F/32	0.75	0.254					
0603SFF100F/32	1.00	0.131					
0603SFF150F/32	1.50	0.059					
0603SFF200F/32	2.00	0.044					
0603SFF250F/32	2.50	0.032					
0603SFF300F/32	3.00	0.025					
0603SFF350F/32	3.50	0.024					
0603SFF400F/32	4.00	0.018					
0603SFF500F/32	5.00	0.013					
0603SFF600F/24	6.00	0.010	24				
1206 (3216mm) Fast Acting Surface-mount Chip Fuses			Coming Soon 1206SFF025F/125	0.25	TBD	63	50
			Coming Soon 1206SFF038F/125	0.38	TBD		
			1206SFF050F/63	0.50	0.500		
			1206SFF075F/63	0.75	0.330		
			1206SFF100F/63	1.00	0.220		
			1206SFF150F/63	1.50	0.120		
			1206SFF175F/63	1.75	0.100		
			1206SFF200F/63	2.00	0.050		
			1206SFF250F/32	2.50	0.035		
			1206SFF300F/32	3.00	0.031		
1206SFF400F/32	4.00	0.022					
1206SFF500F/32	5.00	0.015					
1206SFF600F/24	6.00	0.013	32				
1206SFF700F/24	7.00	0.011	24	45			
1206SFF800F/24	8.00	0.008					

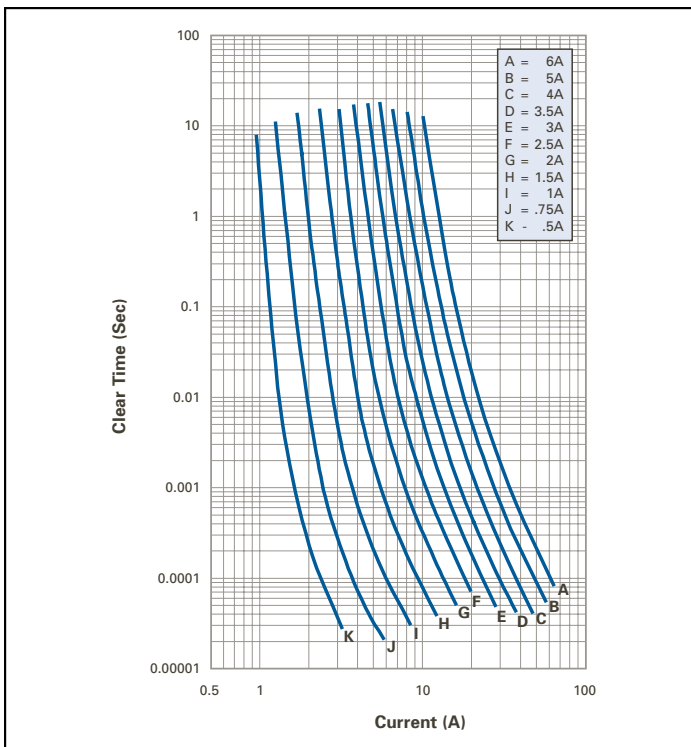
0402SFF Family Average Clear Time



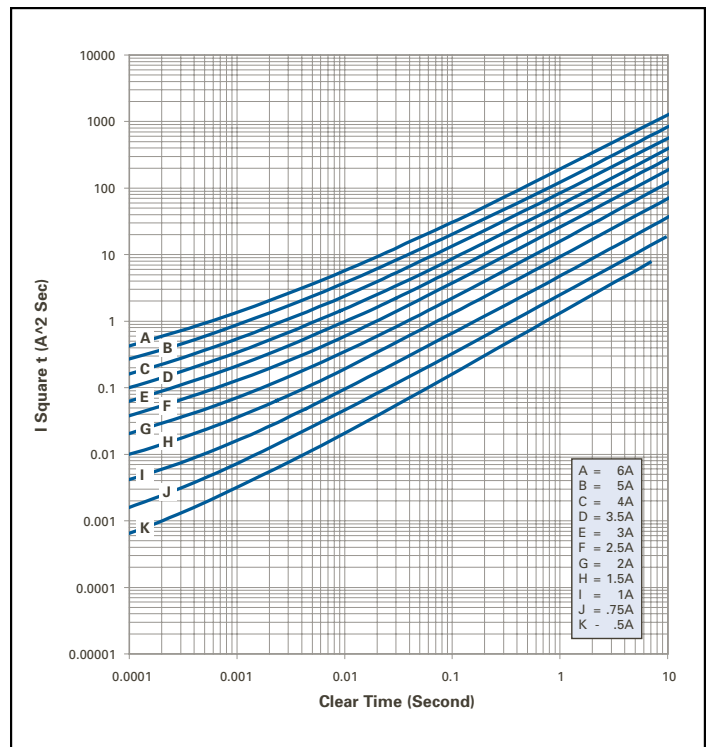
0402SFF Family I²T vs. Clear Time



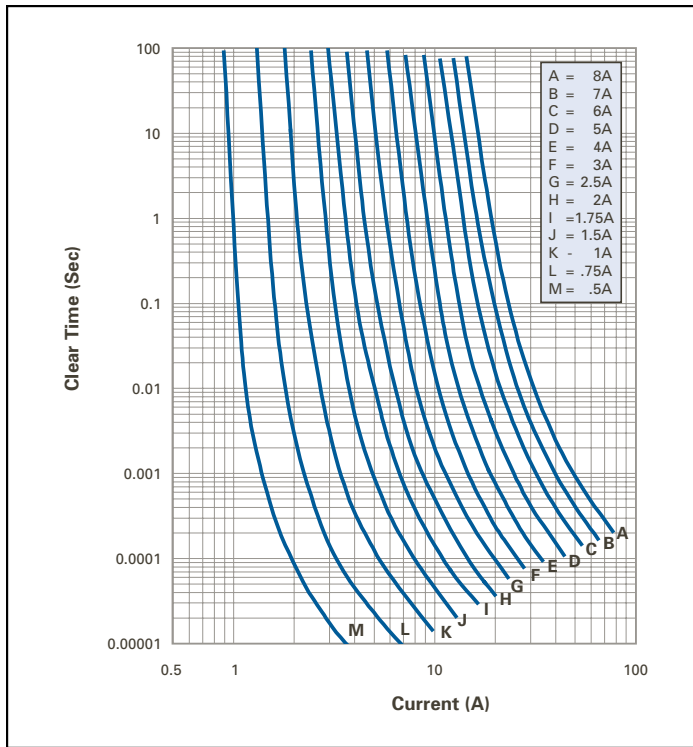
0603SFF Family Average Clear Time



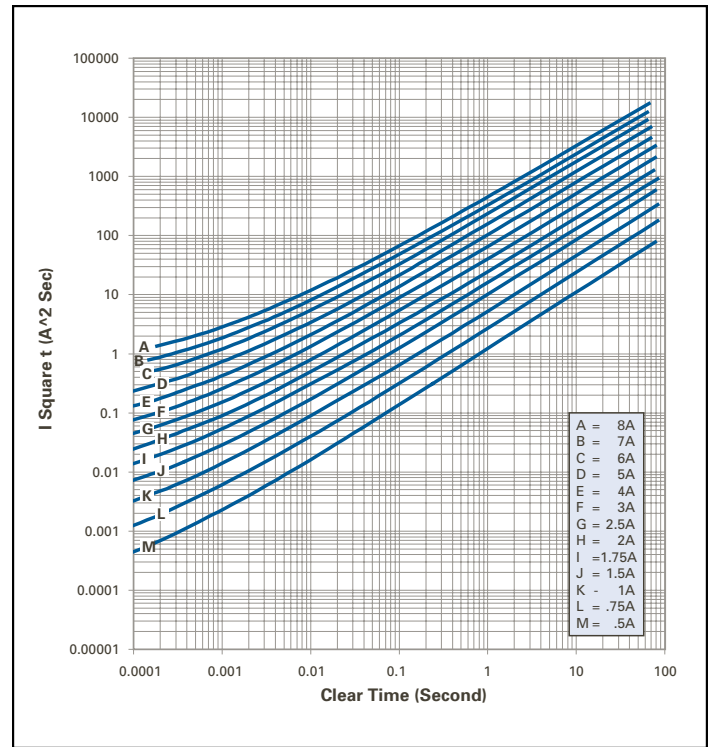
0603SFF Family I²T vs. Clear Time



1206SFF Family Average Clear Time



1206SFF Family I²T vs. Clear Time

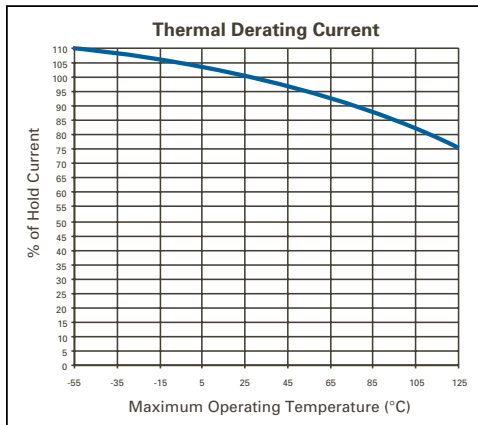


Environmental Specifications

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: 0603: 0.5kg 30 seconds; 1206 1.5kg, 30 seconds; 0402 part types meet 2-pound push test



Electrical Specifications

Insulation Resistance after Opening:	20,000 ohms minimum
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
0402 (1005)	10,000
0603 (1608)	4,000
1206 (3216)	3,000

Worldwide Headquarters

308 Constitution Drive, MS R21/2A
Menlo Park, CA USA 94025-1164
Tel (800) 227-7040
(650) 361-6900
Fax (650) 361-2508

www.circuitprotection.com

www.circuitprotection.com.hk (Chinese)

www.raychem.co.jp/polyswitch (Japanese)

South America**Argentina**

Tel 54-11-4394-5150
Fax 54-11-4326-9985

Brazil

Tel 55-11-5181-4788
Fax 55-11-5181-4790

Chile

Tel 56-2-209-8211
Fax 56-2-223-1477

Colombia

Tel 57-1-218-2460
Fax 57-1-218-2472

Peru

Tel 51-1-221-4165
Fax 51-1-421-0368

Uruguay

Tel 59-8-982-2428
Fax 59-8-982-2430

Venezuela

Tel 58-2-242-6475
Fax 58-2-241-8260

Europe**UK/EIRE/****Nordic Countries**

Tel (32) 16-352028
Fax (32) 16-351319

**Germany/Austria/
Switzerland/****Eastern Europe**

Tel (49) 89-6089386
Fax (49) 89-6089394

**France/Benelux/
Italy/Iberia**

Tel (33) 1-34202114
Fax (33) 1-34202324

Other Countries

Tel (32) 16-351321
Fax (32) 16-351319

Asia/Pacific**China, Beijing**

Tel 86-10-6581-5606
Fax 86-10-6581-5608

China, Guangzhou

Tel 86-20-8330-9933
Fax 86-20-8385-6139

China, Hong Kong

Tel 852-2738-3401
Fax 852-2735-1185

China, Shanghai

Tel 86-21-6485-3288
Fax 86-21-6485-5109

India, Bangalore

Tel 91-80-5112-1776
Fax 91-80-2558-6039

Japan

Tel 81-44-900-5110
Fax 81-44-900-5140

Korea

Tel 82-2-3415-4654
Fax 82-2-3486-1786

Malaysia

Tel 6-04-611-2119
Fax 6-04-644-9521

Australia/Philippines

Tel 63-2-848-0171
Fax 63-2-867-8661

Singapore

Tel 65-6416-4205
Fax 65-6484-0661

Taiwan

Tel 886-2-2662-9788
Fax 886-2-2662-4684

Thailand

Tel 66-1-875-5758
Fax 66-2-617-1939

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