



#### Description

- Rapid interruption of excessive current
- · Compatible with reflow and wave solder
- Rugged ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- 100% tin (lead free) plating option available
- Compatible with lead free solders and higher
- temperature profiles

ELECTRICAL CHARACTERISTICS			
% of Amp Rating	Opening Time		
100%	4 Hours Minimum		
200%	60 Seconds Maximum		

#### **Agency Information**

- UL Recognition Card: JDYX2, E19180
- CSA Component Acceptance Card: 053787 C 000, Class Number 1422 30

#### **Environmental Data**

- Life Test: MIL-STD-202, Method 108A
- Load Humidity Test: MIL-STD-202, Method 103B
- Moisture Resistance Test: MIL-STD-202, Method 106E
- Terminal Strength Test: Downward force is applied to cause a 1mm deflection for 1 minute
- Thermal Shock Test: MIL-STD-202, Method 107D
- Solderability: ANSI/J-STD-002
- Mechanical Shock Test: MIL-STD-202, Method 213B
- High Frequency Vibration Test: MIL-STD-202, Method 204D
- Resistance to Solvents Test: MIL-STD-202, Method 215A

#### Ordering

- Specify product code and packaging code
- Specify "-T" for lead free plating



### Dimensions mm/(inches)

Drawing Not to Scale





#### **Soldering Method**

- Wave Solder: 260°C, 10 sec max.
- Infrared Reflow: 260°C, 30 sec max.

SPECIFICATIONS							
	Voltage	Interrupting	DC Cold	Typical	Typical	Alpha	
Product Code	Rating	Rating at	Resistance** (ohms)	Melting	Voltage	Code	
	DC	Rated Voltage*	Typical	l²t***	Drop†	Marking‡	
0603FA250mA	32V	50A	3.100	0.0004	0.921	D	
0603FA375mA	32V	50A	1.250	0.0009	0.605	E	
0603FA500mA	32V	50A	1.025	0.00193	0.600	F	
0603FA750mA	32V	50A	0.450	0.0090	0.440	G	
0603FA1A	32V	50A	0.150	0.0025	0.211	Н	
0603FA1.25A	32V	35A	0.108	0.0130	0.151	J	
0603FA1.5A	32V	35A	0.086	0.0319	0.138	K	
0603FA2A	32V	35A	0.051	0.0491	0.116	N	
0603FA2.5A	24V	35A	0.037	0.0625	0.113	0	
0603FA3A	24V	35A	0.028	0.0699	0.110	Р	
0603FA3.5A	24V	35A	0.022	0.1200	0.103	R	
0603FA4A	24V	35A	0.017	0.2430	0.097	S	
0603FA5A	24V	35A	0.011	0.6950	0.090	Т	

DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)

\*\* DC Cold Resistance (Measured at ≤10% of rated current)

\*\*\* Typical Melting I<sup>2</sup>t (Measured with a battery bank at rated DC voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microseconds) (0603FA4A and 5A measured at interrupting rating)

Typical Voltage Drop (Measured at rated current after temperature stabilizes) +

Alpha code to be marked on the top of fuse body for all ratings ‡

Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

# **Chip<sup>™</sup> Fuses**

(0.035)

0603FA Series, Fast Acting



Chip<sup>™</sup> Fuses 0603FA Series, Fast Acting

#### TIME CURRENT CURVE



OPTION CODE			
Option Code	Description		
Т	Lead free plating		

PACKAGING CODE				
Packaging Code	Description			
SP	50 piece sample pack			
TR	5,000 pieces of fuses in paper tape and reeled on a 178mm (7 inch) reel per EIA Standard 481-1			
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## **COOPER** Bussmann

#### OC-2547 Rev. XJ 5/03 Visit us on the Web at www.cooperET.com

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