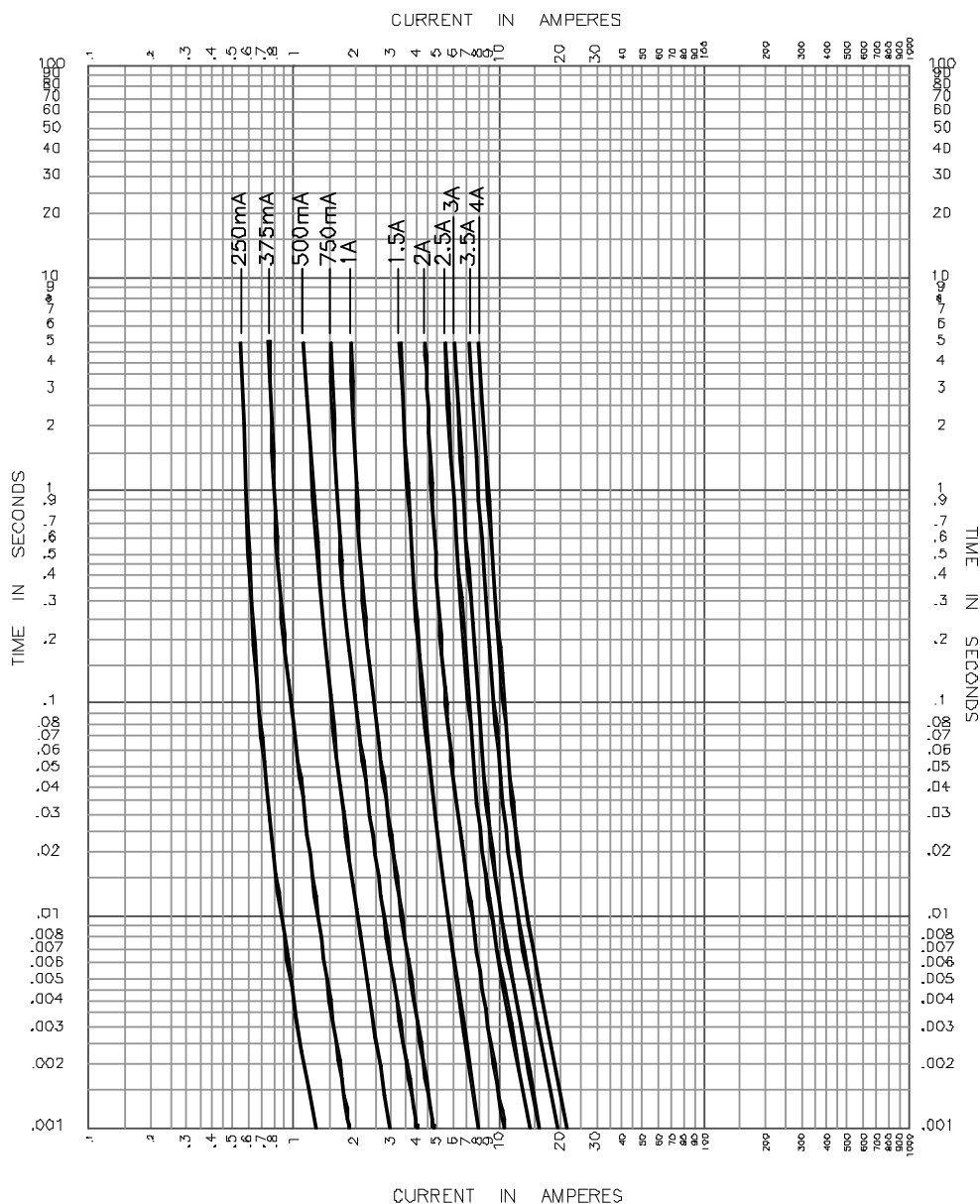


TIME CURRENT CURVE



PACKAGING CODE	
Packaging Code	Description
TR	3,000 pieces of fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481

North America

Cooper Electronic Technologies
3601 Quantum Boulevard
Boynton Beach, FL 33426-8638
Tel: 1-561-752-5000
Fax: 1-561-742-0134
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P.O. Box 14460
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General Fax: (561) 742-1178

Cooper Electronic Technologies,
a business unit of



November 18, 2005

Subject: **1608FF END OF LIFE NOTICE**

To Whom It May Concern:

Cooper Electronic Technologies' 1608FF Series SMD Fuse is at its end of life as a current product offering.

The 0603FA-R Series CHIP™ Fuse is the recommended replacement for the 1608FF Series fuse. The **0603FA-R series is compliant with the RoHS Directive**, whereas the 1608FF product is not. Functionally, the two devices are interchangeable. The 0603FA-R series delivers additional benefits that we are sure our valued customers will enjoy. Specifically, the 0603FA-R carries a lower profile for use in smaller spaces, alpha coding for easier identification of current rating, higher voltage ratings for some current ratings, higher inrush withstand capability for some current ratings, and is RoHS Compliant. The 0603FA-R is immediately available. The data sheet for the 0603FA-R series may be found on our web site (www.cooperet.com).

We will do our best to minimize the customer inconvenience and allow the transition to proceed during the next few months. "End of life" quantity purchases are being accepted through May 2006, with shipments continuing into June 2006. The official **end of life date is June 30, 2006**.

Please plan the transition process. Cooper Electronic Technologies' personnel will assist with the implementation as required.

Thank you,

Matt Joiner
Product Manager
Cooper Electronic Technologies, a business unit of Cooper Bussmann

Description

- RoHS Compliant
- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Rugged ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- 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

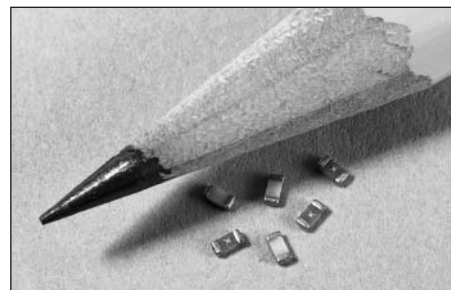
- UL Recognition Card: JDYX2, E19180
- CSA Component Acceptance Card: 053787 C 000, Class Number 1422 30

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

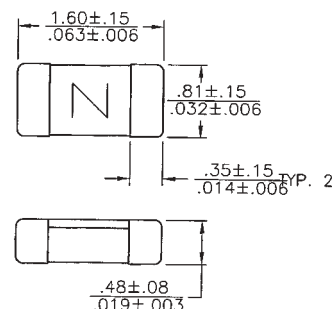
Ordering

- Specify packaging code and product code (i.e., TR/0603FA250-R)

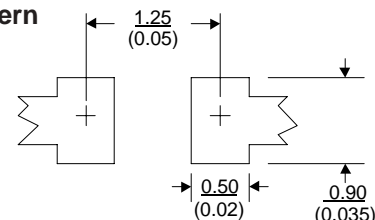


Dimensions ^{mm/(inches)}

Drawing Not to Scale



Land Pattern



Soldering Method

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

SPECIFICATIONS

Product Code	Current Rating	Voltage Rating DC	Interrupting Rating at Rated Voltage*	DC Cold Resistance** (ohms) Typical	Typical Melting I _t ***	Typical Voltage Drop†	Alpha Code Marking‡
0603FA250-R	250mA	32V	50A	3.100	0.0004	0.921	D
0603FA375-R	375mA	32V	50A	1.250	0.0009	0.605	E
0603FA500-R	500mA	32V	50A	1.025	0.00193	0.600	F
0603FA750-R	750mA	32V	50A	0.450	0.0090	0.440	G
0603FA1-R	1A	32V	50A	0.150	0.0025	0.211	H
0603FA1.25-R	1.25A	32V	35A	0.108	0.0130	0.151	J
0603FA1.5-R	1.5A	32V	35A	0.086	0.0319	0.138	K
0603FA2-R	2A	32V	35A	0.051	0.0491	0.116	N
0603FA2.5-R	2.5A	24V	35A	0.037	0.0625	0.113	O
0603FA3-R	3A	24V	35A	0.028	0.0699	0.110	P
0603FA3.5-R	3.5A	24V	35A	0.022	0.1200	0.103	R
0603FA4-R	4A	24V	35A	0.017	0.2430	0.097	S
0603FA5-R	5A	24V	35A	0.011	0.6950	0.090	T

* 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)

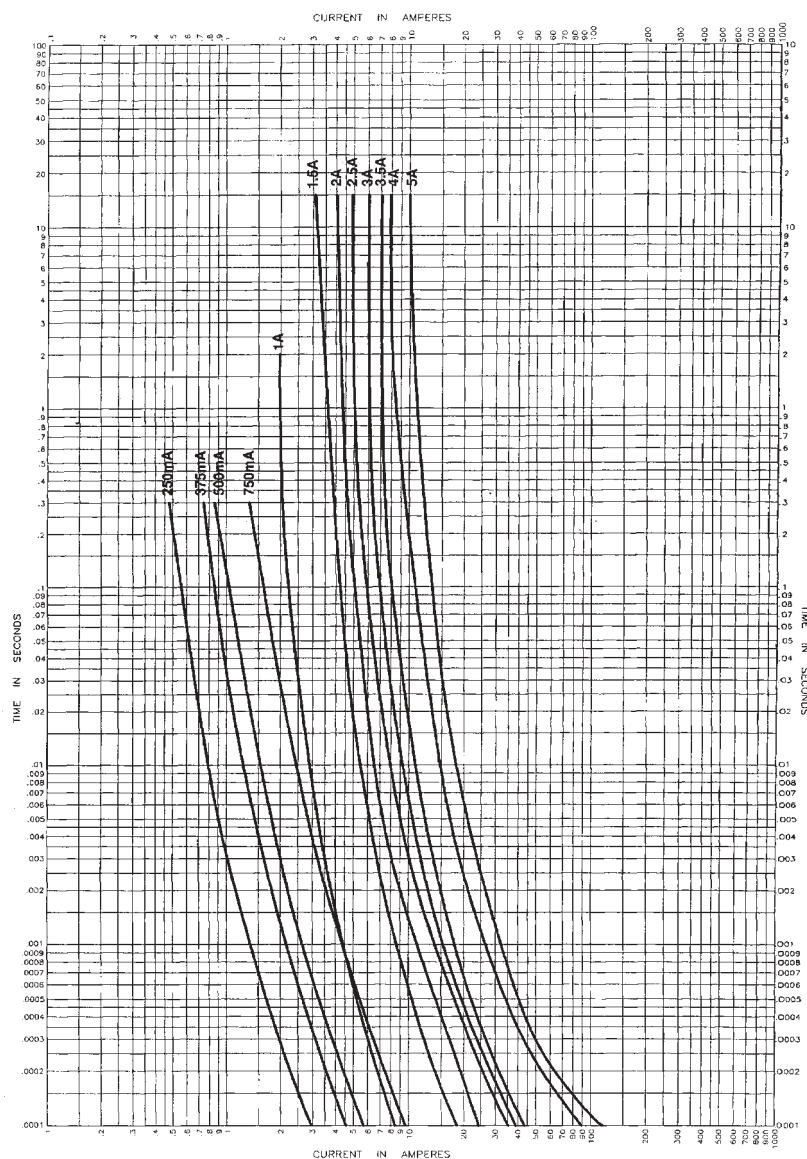
*** Typical Melting I_t (Measured with a battery bank at rated DC voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microseconds) (0603FA4A and 5A measured at interrupting rating)

† 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.

TIME CURRENT CURVE



PACKAGING CODE	
Packaging Code	Description
TR	5,000 pieces of fuses in paper tape and reeled on a 178mm (7 inch) reel per EIA Standard 481-1

North America

Cooper Electronic Technologies
3601 Quantum Boulevard
Boynton Beach, FL 33426-8638
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