



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



### 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

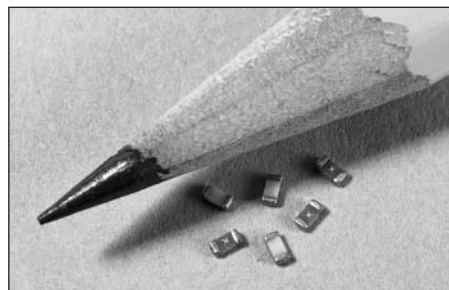
- UL Recognition Card: JDYX2, E19180
- CSA Component Acceptance Card: 053787 C 000, Class Number 1422 30

### 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

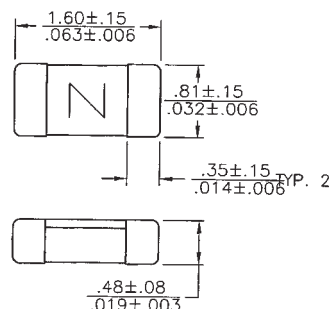
### Ordering

- Specify product code and packaging code
- Specify “-T” for lead free plating

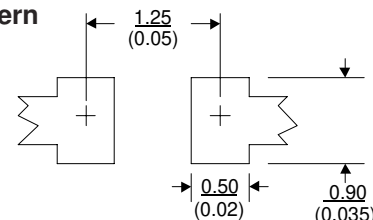


### Dimensions <sup>mm/(inches)</sup>

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	Voltage Rating DC	Interrupting Rating at Rated Voltage*	DC Cold Resistance** (ohms) Typical	Typical Melting I <sub>t</sub> ***	Typical Voltage Drop†	Alpha Code 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	H
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	O
0603FA3A	24V	35A	0.028	0.0699	0.110	P
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	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)

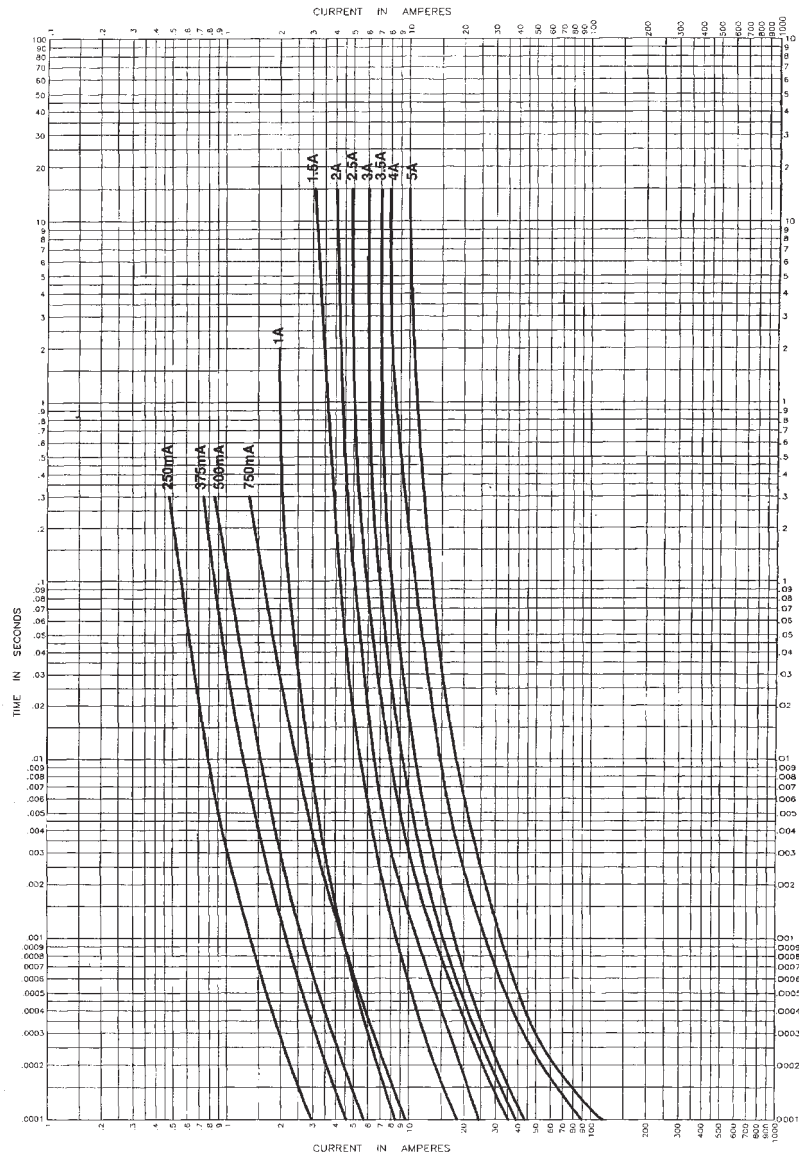
\*\*\* Typical Melting I<sub>t</sub> (Measured with a battery bank at rated DC voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microseconds) (0603FA4A and 5A measured at interrupting rating)

† 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**



OPTION CODE	
Option Code	Description
T	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