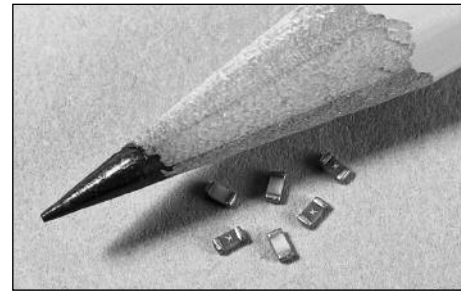


**Description**

- 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 Guide & File numbers: JDYX2 & E19180
- CSA Component Acceptance: 053787 C 000 & Class Number: 1422 30

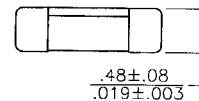
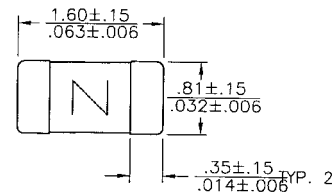
**Environmental Data**

- 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

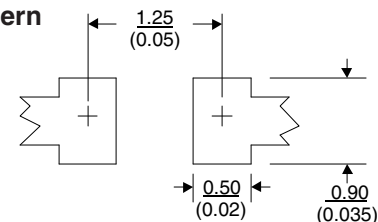
**Ordering**

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

**Dimensions** mm/(inches)  
Drawing Not to Scale



**Land Pattern**



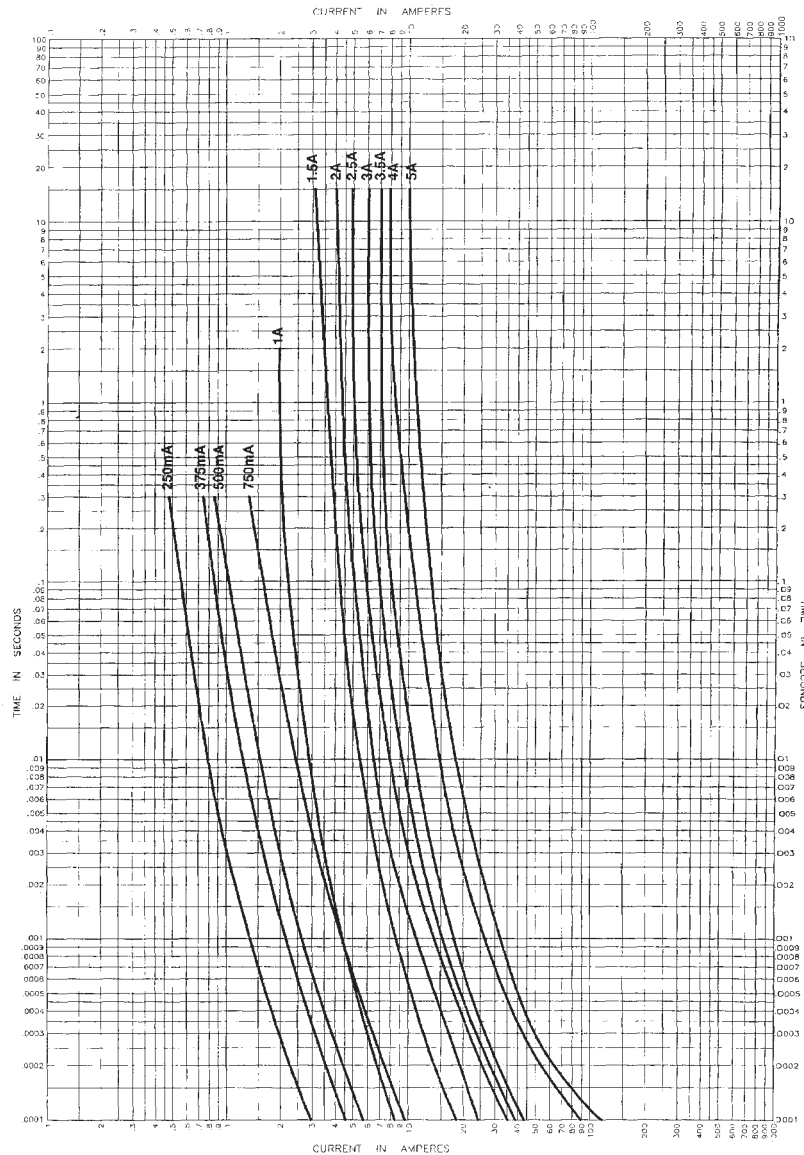
**Soldering Method**

- 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 <sup>2</sup> 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<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.

**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 |

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