

**Cooper Bussmann**

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6125FA5A

**Product Information**

|                 |            |
|-----------------|------------|
| Product Type:   | Fuse       |
| Product Family: | Electronic |

### Description

- Fast Acting Surface Mount Fuse
- Complies with the EIA-IS-722 Standard
- Solder Immersion Compatible
- Overcurrent protection of systems up to 125VAC/DC
- Wire-in-air design

| ELECTRICAL CHARACTERISTICS |                   |
|----------------------------|-------------------|
| % of Amp Rating            | Opening Time      |
| 100%                       | 4 Hours Minimum   |
| 200%                       | 5 Seconds Maximum |

### Agency Information

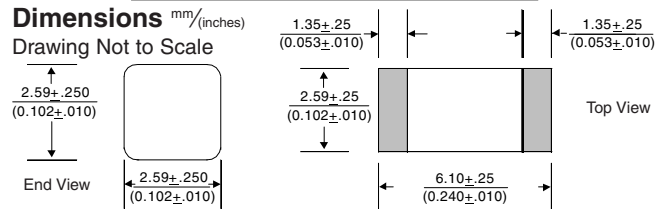
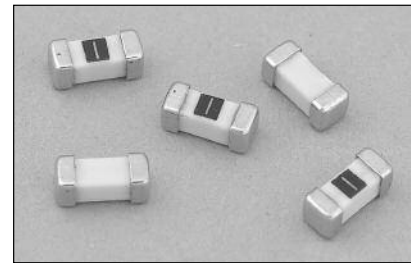
- UL Listed Guide and File Numbers (250mA-12A): JDYX & E19180
- UL Recognized Guide and File Numbers (15A): JDYX2 & E195337
- CSA Component Acceptance: 053787 C 000 & Class No: 1422 30

### Environmental Data

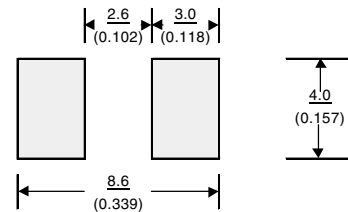
- Shock: MIL-STD-202, Method 213, Test Condition 1 (100 G's peak for 6 milliseconds)
- Vibration: MIL-STD-202, Method 201 (10-55 Hz, 0.06 inch, total excursion)
- Salt Spray: MIL-STD-202, Method 101, Test Condition B (48 hrs)
- Insulation Resistance: MIL-STD-202, Method 302, Test Condition A (After Opening) 10,000 ohms minimum
- Resistance to Solder Heat: MIL-STD-202, Method 210, Test Condition F (20 sec, at 260° C)
- Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65° C to +125° C)

### Ordering

- Specify product and packaging code



### Land Pattern



### Soldering Method

- Wave Solder: 260°C, 10 sec max. (MIL-STD-202, Method 210)
- Infrared Reflow: 260°C, 30 sec max.

## SPECIFICATIONS

| Product Code | Voltage Rating |      |     | Interrupting Rating* |         |         | Resistance (ohms)** | Typical Melt I <sup>††</sup> | Typical Voltage Drop (V)‡ |
|--------------|----------------|------|-----|----------------------|---------|---------|---------------------|------------------------------|---------------------------|
|              | AC             | DC   | DC  | 125V AC              | 125V DC | 86V DC  |                     |                              |                           |
| 6125FA250mA  | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.65                | 0.01                         | 0.30                      |
| 6125FA375mA  | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.36                | 0.03                         | 0.25                      |
| 6125FA500mA  | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.24                | 0.06                         | 0.22                      |
| 6125FA750mA  | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.15                | 0.07                         | 0.17                      |
| 6125FA1A     | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.11                | 0.14                         | 0.17                      |
| 6125FA1.25A  | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.09                | 0.24                         | 0.16                      |
| 6125FA1.5A   | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.07                | 0.41                         | 0.15                      |
| 6125FA2A     | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.05                | 0.80                         | 0.15                      |
| 6125FA2.5A   | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.038               | 1.4                          | 0.14                      |
| 6125FA3A     | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.028               | 2.4                          | 0.13                      |
| 6125FA3.5A   | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.025               | 3.3                          | 0.13                      |
| 6125FA4A     | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.022               | 4.4                          | 0.13                      |
| 6125FA5A     | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.016               | 7.8                          | 0.12                      |
| 6125FA6.3A   | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.012               | 14.0                         | 0.12                      |
| 6125FA7A     | 125V           | 125V | 86V | 50A                  | 300A    | 10,000A | 0.011               | 19.0                         | 0.114                     |
| 6125FA10A    | 125V           | N/A  | 86V | 50A                  | N/A     | 10,000A | 0.007               | 44                           | 0.107                     |
| 6125FA12A    | 125V           | N/A  | 86V | 50A                  | N/A     | 10,000A | 0.006               | 69                           | 0.103                     |
| 6125FA15A    | N/A            | N/A  | 86V | N/A                  | N/A     | 10,000A | 0.004               | 124                          | 0.098                     |

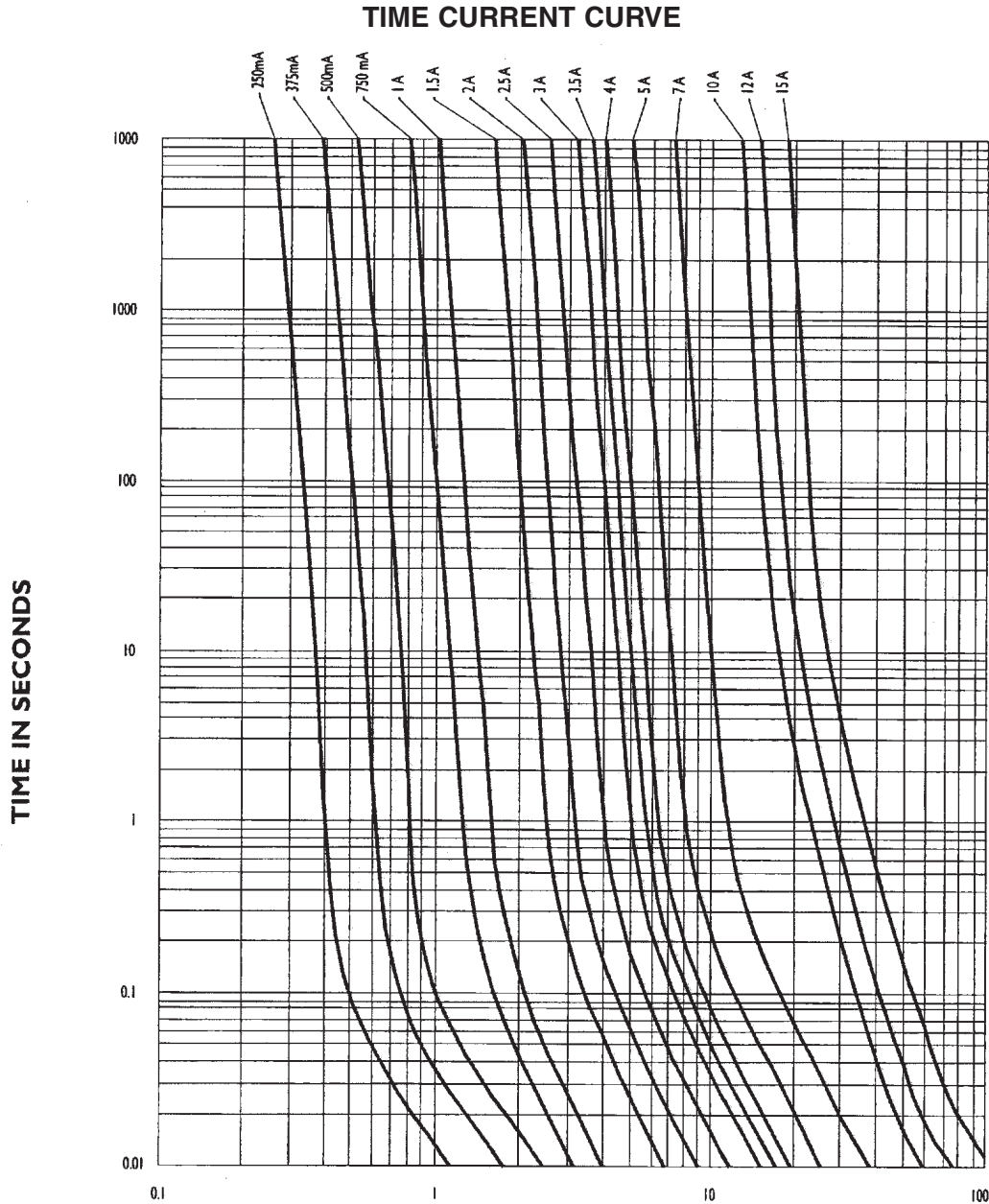
\* AC Interrupting Rating (Measured at designated voltage, 100% power factor); DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)

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

† Typical Melting I<sup>††</sup> (Measured with a battery bank at rated DC voltage, 10x-rated current, time constant of calibrated circuit less than 50 microseconds)

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

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.



| <b>PACKAGING CODE</b> |  |
|-----------------------|--|
| Packaging Code        | Description  |
| TR2                   | 5,000 pieces of fuses on 12mm tape-and-reel on a 13 inch (330mm) reel per EIA Standard 481 |