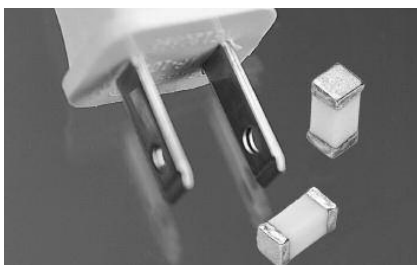


## 6125TD

## Time-delay surface mount fuse

RoHS



## Product features

- Time-delay surface mount fuse
- Satisfies the EIA/IS-722 Standard
- Solder immersion compatible

## Agency information

- UL Recognition Guide & File numbers: JDYX2 & E19180.
- CSA Component Acceptance: 053787 C 000 & Class No: 1422 30

## Soldering method

- Wave immersion: 260°C, 10 Sec. max.
- Infrared reflow: 260°C, 30 Sec. max.

## Environmental data

- Life test: MIL-STD-202, Method 108A, Test Condition D
- Load humidity: MIL-STD-202, Method 103B
- Moisture resistance: MIL-STD-202, Method 106E
- Terminal strength: MIL-STD-202, Method 211A
- Thermal shock: MIL-STD-202, Method 107D, air-to-air
- Case resistance: EIA/IS-722
- Resistance to dissolution of metallization: ANSI J-STD-002, Test D
- Mechanical shock: MIL-STD-202, Method 213B with exceptions per EIA/IS-722 Standard
- High frequency vibration: MIL-STD-202, Method 204D, Test Condition D
- Resistance to solvents: MIL-STD-202, Method 215A

## Ordering

- Specify packaging and product code (i.e., TR1/6125TD500-R)

## ELECTRICAL CHARACTERISTICS

| % of Amp Rating | Opening Time        |
|-----------------|---------------------|
| 100%            | 4 Hours Minimum     |
| 200%            | 1 Second Minimum    |
| 200%            | 2-4 Seconds Typical |
| 200%            | 60 Seconds Maximum  |

## SPECIFICATIONS

| Product Code | Current Rating | Voltage Rating |     | Interrupting Rating* |       | Resistance (ohms)**<br>Typ. | Typical Melting I <sup>††</sup> | Typical Voltage Drop‡ |
|--------------|----------------|----------------|-----|----------------------|-------|-----------------------------|---------------------------------|-----------------------|
|              |                | AC             | DC  | 125VAC               | 60VDC |                             |                                 |                       |
| 6125TD500-R  | 500mA          | 125V           | 60V | 50A                  | 50A   | 0.4025                      | 0.716                           | 245 mV                |
| 6125TD750-R  | 750mA          | 125V           | 60V | 50A                  | 50A   | 0.2350                      | 1.07                            | 250 mV                |
| 6125TD1-R    | 1A             | 125V           | 60V | 50A                  | 50A   | 0.1680                      | 2.88                            | 256 mV                |
| 6125TD1.5-R  | 1.5A           | 125V           | 60V | 50A                  | 50A   | 0.0630                      | 2.35                            | 125 mV                |
| 6125TD2-R    | 2A             | 125V           | 60V | 50A                  | 50A   | 0.0480                      | 9.45                            | 133 mV                |
| 6125TD2.5-R  | 2.5A           | 125V           | 60V | 50A                  | 50A   | 0.0350                      | 16.2                            | 130 mV                |
| 6125TD3-R    | 3A             | 125V           | 60V | 50A                  | 50A   | 0.0263                      | 15.3                            | 97 mV                 |
| 6125TD3.5-R  | 3.5A           | 125V           | 60V | 50A                  | 50A   | 0.0195                      | 14.5                            | 95 mV                 |
| 6125TD4-R    | 4A             | 125V           | 60V | 50A                  | 50A   | 0.0185                      | 38.8                            | 106 mV                |
| 6125TD5-R    | 5A             | 125V           | 60V | 50A                  | 50A   | 0.0133                      | 34.4                            | 100 mV                |
| 6125TD7-R    | 7A             | 125V           | 60V | 50A                  | 50A   | 0.0087                      | 90.2                            | 99 mV                 |

\* 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 (not to exceed IR), time constant of calibrated circuit less than 50 microseconds)

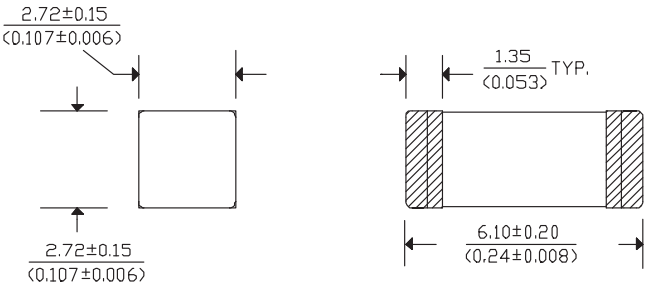
‡ Typical Voltage Drop (Measured at rated current after temperature stabilizes)

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.

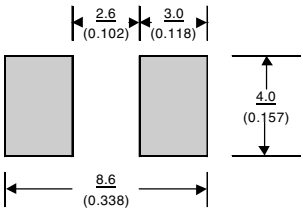


Powering Business Worldwide

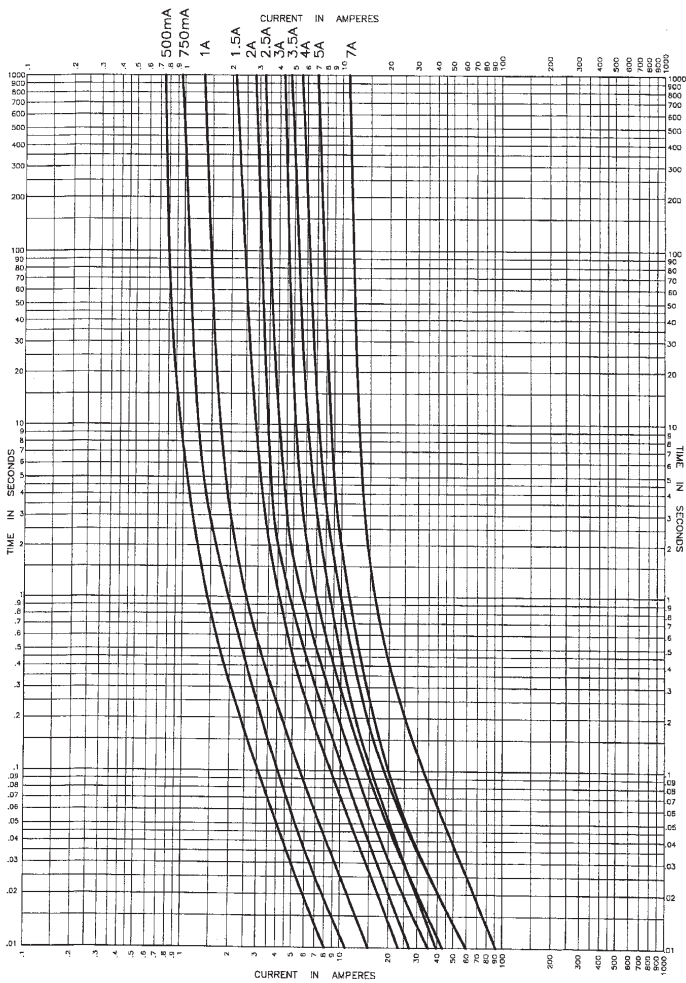
Dimensions mm/(inches)



Land Pattern



TIME CURRENT CURVE



| PACKAGING CODE |                                                                                          |
|----------------|------------------------------------------------------------------------------------------|
| Packaging Code | Description                                                                              |
| TR1            | 1000 pieces of fuses on 12mm tape-and-reel on a 7 inch (177mm) reel per EIA Standard 481 |

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

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