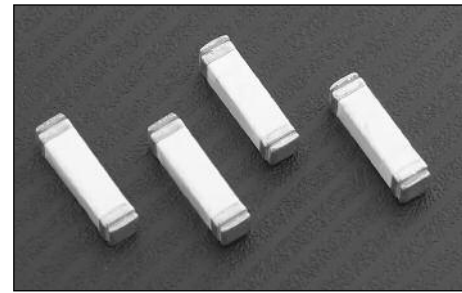


Description

- Fast Acting Surface Mount Fuse
- Satisfies the EIA/IS-722 Standard
- Solder Immersion Compatible



| ELECTRICAL CHARACTERISTICS | |
|----------------------------|--------------------|
| % of Amp Rating | Opening Time |
| 100% | 4 Hours Minimum |
| 200% (250mA-5A) | 5 Seconds Maximum |
| 250% (250mA-5A fuse) | 1 Second Maximum |
| 200% (7A-15A fuse) | 20 Seconds Maximum |
| 250% (7A-15A fuse) | 4 Seconds Maximum |

Note: 30vdc constant current source required for 200% overload tests on 250ma-1a.

Agency Information

- UL Recognition Guide & File numbers: JDYX2 & E19180 (250mA - 15A)
- CSA Component Acceptance: File # 053787 C000, Class # 1422 30

Environmental Data

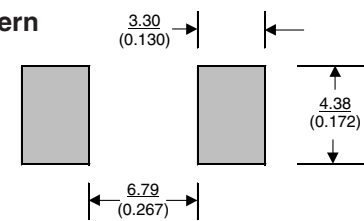
- Life Test: MIL-STD-202, Method 108A, Test Condition D
- Load Humidity: MIL-STD-202, Method 103B
- Moisture Resistance: MIL-STD-202, Method 106E
- Terminal Strength: MIL-STD-202, Method 211A
- Thermal Shock: MIL-STD-202, Method 107D, air-to-air
- Case Resistance: EIA/IS-722
- Resistance to Dissolution 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

Dimensions mm/(inches)

Drawing Not to Scale



Land Pattern



Ordering

- Specify packaging and product code (i.e., TR2/1025FA250-R)

Soldering Method

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

| Product Code | Current Rating | Voltage Rating | | Interrupting Rating* | | | DC Cold Resistance** (ohms) Typical | Typical Melting I [†] t | Typical Voltage Drop‡ |
|--------------|----------------|----------------|-------|----------------------|--------|-------|-------------------------------------|----------------------------------|-----------------------|
| | | AC | DC | 250VAC | 125VDC | 60VDC | | | |
| | | 1025FA250-R | 250mA | 250V | 125V | 50A | | | |
| 1025FA500-R | 500mA | 250V | 125V | 50A | 50A | - | 1.2000 | 0.0415 | 1500 mV |
| 1025FA750-R | 750mA | 250V | 125V | 50A | 50A | - | 0.6000 | 0.143 | 880 mV |
| 1025FA1-R | 1A | 250V | 125V | 50A | 50A | - | 0.3000 | 1.750 | 560 mV |
| 1025FA1.5-R | 1.5A | 250V | 125V | 50A | 50A | - | 0.1040 | 1.460 | 260 mV |
| 1025FA2-R | 2A | 250V | 125V | 50A | 50A | - | 0.0800 | 6.086 | 258 mV |
| 1025FA2.5-R | 2.5A | 250V | 125V | 50A | 50A | - | 0.0510 | 8.48 | 232 mV |
| 1025FA3-R | 3A | 250V | 125V | 50A | 50A | - | 0.0390 | 18.15 | 205 mV |
| 1025FA3.5-R | 3.5A | 250V | 125V | 50A | 50A | - | 0.0300 | 17.83 | 185 mV |
| 1025FA4-R | 4A | 250V | 125V | 50A | 50A | - | 0.0270 | 23.32 | 190 mV |
| 1025FA5-R | 5A | 250V | 125V | 50A | 50A | - | 0.0200 | 38.74 | 180 mV |
| 1025FA7-R | 7A | 250V | 60V | 50A | 50A | - | 0.0116 | 138 | 150 mV |
| 1025FA10-R | 10A | 250V | 60V | 50A | 50A | - | 0.0076 | 457 | 146 mV |
| 1025FA12-R | 12A | 250V | 60V | 50A | - | 50A | 0.0550 | 498 | 120 mV |
| 1025FA15-R | 15A | 250V | 60V | 50A | - | 50A | 0.0041 | 1451 | 110 mV |

* AC Interrupting Rating (Measured at designated voltage, 100% power factor random closing); 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, but not exceeding the interrupting rating. Time constant of calibrated circuit less than 50 microseconds). Test current not to exceed interrupting rating of 50A.

‡ 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.

TIME CURRENT CURVE



| PACKAGING CODE | |
|----------------|--|
| Packaging Code | Description |
| TR2 | 2,500 pieces of fuses on 24mm tape-and-reel on 13 inch (330mm) reel per EIA Standard 481 |