

Description

- Surface Mount
- Environmentally rugged, satisfies the EIA/IS-722 Standard
- Solder Immersion Compatible
- Targeted for Consumer Electronics

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

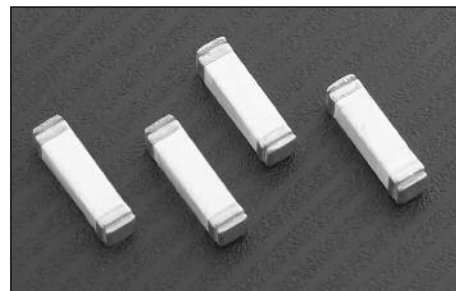
Note: 30vdc constant current source required for 200% overload tests on 250ma-1a.

Agency Information

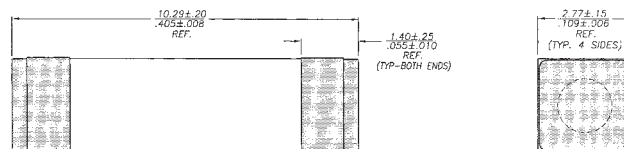
- UL Recognition Guide & File numbers: JDYX2 & E19180 (250mA - 15A)
- CSA Component Acceptance: File # 053787 C000, Class # 1422 30

Environmental Data

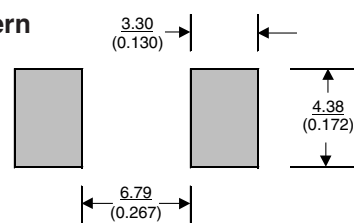
- Life Test: MIL-STD-202, Method 108A, Test Condition D
- Load Humidity: MIL-STD-202, Method 103B
- Moisture Resistance: MIL-STD-202, Method 106E
- Terminal Strength: MIL-STD-202, Method 211A
- Thermal Shock: MIL-STD-202, Method 107D, air-to-air
- Case Resistance: EIA/IS-722
- Resistance to Dissolution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

SPECIFICATIONS									
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	50A	-	5.0000	0.1212	2019 mV
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)

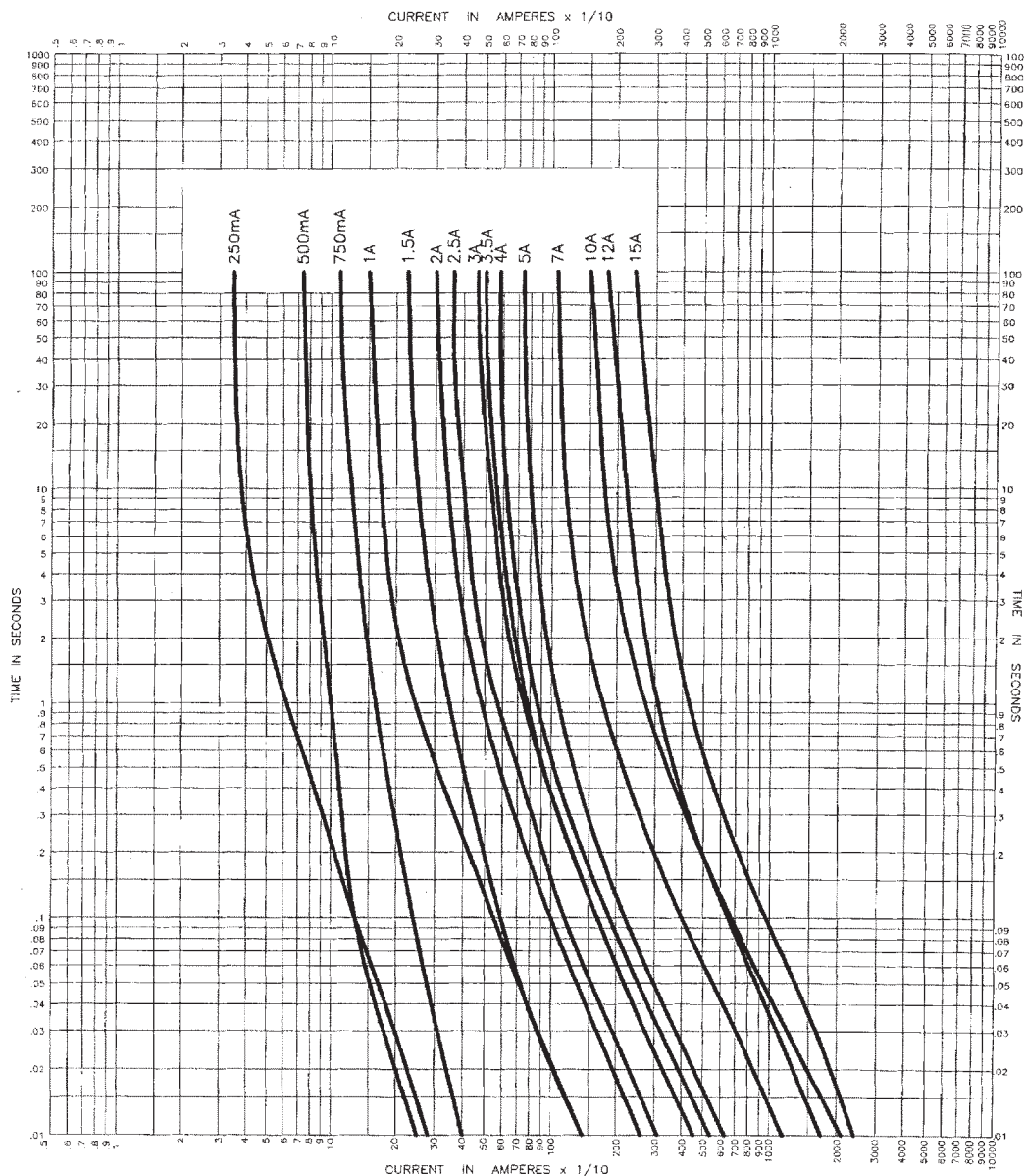
** DC Cold Resistance (Measured at ≤10% of rated current)

† 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

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