

### 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

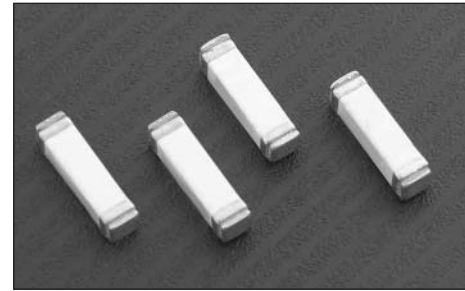
Note: 30vdc constant current source required for 200% overload tests on 250ma-1a.

### Agency Information

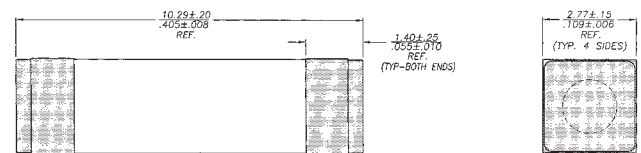
- UL Recognition Guide & File numbers: JDYX2 & E19180 (250mA - 15A)
- CSA Component Acceptance: File # 053787 C000, Class # 1422 30

### Environmental Data

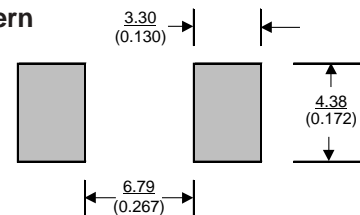
- Life Test: MIL-STD-202, Method 108A, Test Condition D
- Load Humidity: MIL-STD-202, Method 103B
- Moisture Resistance: MIL-STD-202, Method 106E
- Terminal Strength: MIL-STD-202, Method 211A
- Thermal Shock: MIL-STD-202, Method 107D, air-to-air
- Case Resistance: EIA/IS-722
- Resistance to Dissolution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



### Soldering Method

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

### Ordering

- Specify product code and packaging code

## SPECIFICATIONS

Product Code	Voltage Rating		Interrupting Rating*			DC Cold Resistance** (ohms) Typical	Typical Melting I <sub>t</sub> †	Typical Voltage Drop‡	Marking Code‡‡		
	AC	DC	250VAC	125VDC	60VDC				1 <sup>st</sup> & 2 <sup>nd</sup>	3 <sup>rd</sup>	
1025FA250mA	250V	125V	50A	50A	-	5.0000	0.1212	2019 mV	AD		U, T or S
1025FA500mA	250V	125V	50A	50A	-	1.2000	0.0415	1500 mV	AF		
1025FA750mA	250V	125V	50A	50A	-	0.6000	0.143	880 mV	AG		
1025FA1A	250V	125V	50A	50A	-	0.3000	1.750	560 mV	AH		
1025FA1.5A	250V	125V	50A	50A	-	0.1040	1.460	260 mV	AK		
1025FA2A	250V	125V	50A	50A	-	0.0800	6.086	258 mV	AN		
1025FA2.5A	250V	125V	50A	50A	-	0.0510	8.48	232 mV	AO		
1025FA3A	250V	125V	50A	50A	-	0.0390	18.15	205 mV	AP		
1025FA3.5A	250V	125V	50A	50A	-	0.0300	17.83	185 mV	AR		
1025FA4A	250V	125V	50A	50A	-	0.0270	23.32	190 mV	AS		
1025FA5A	250V	125V	50A	50A	-	0.0200	38.74	180 mV	AT		
1025FA7A	250V	60V	50A	50A	-	0.0116	138	150 mV	AU		
1025FA10A	250V	60V	50A	50A	-	0.0076	457	146 mV	AW		
1025FA12A	250V	60V	50A	-	50A	0.0550	498	120 mV	AX		
1025FA15A	250V	60V	50A	-	50A	0.0041	1451	110 mV	AY		

\* 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)

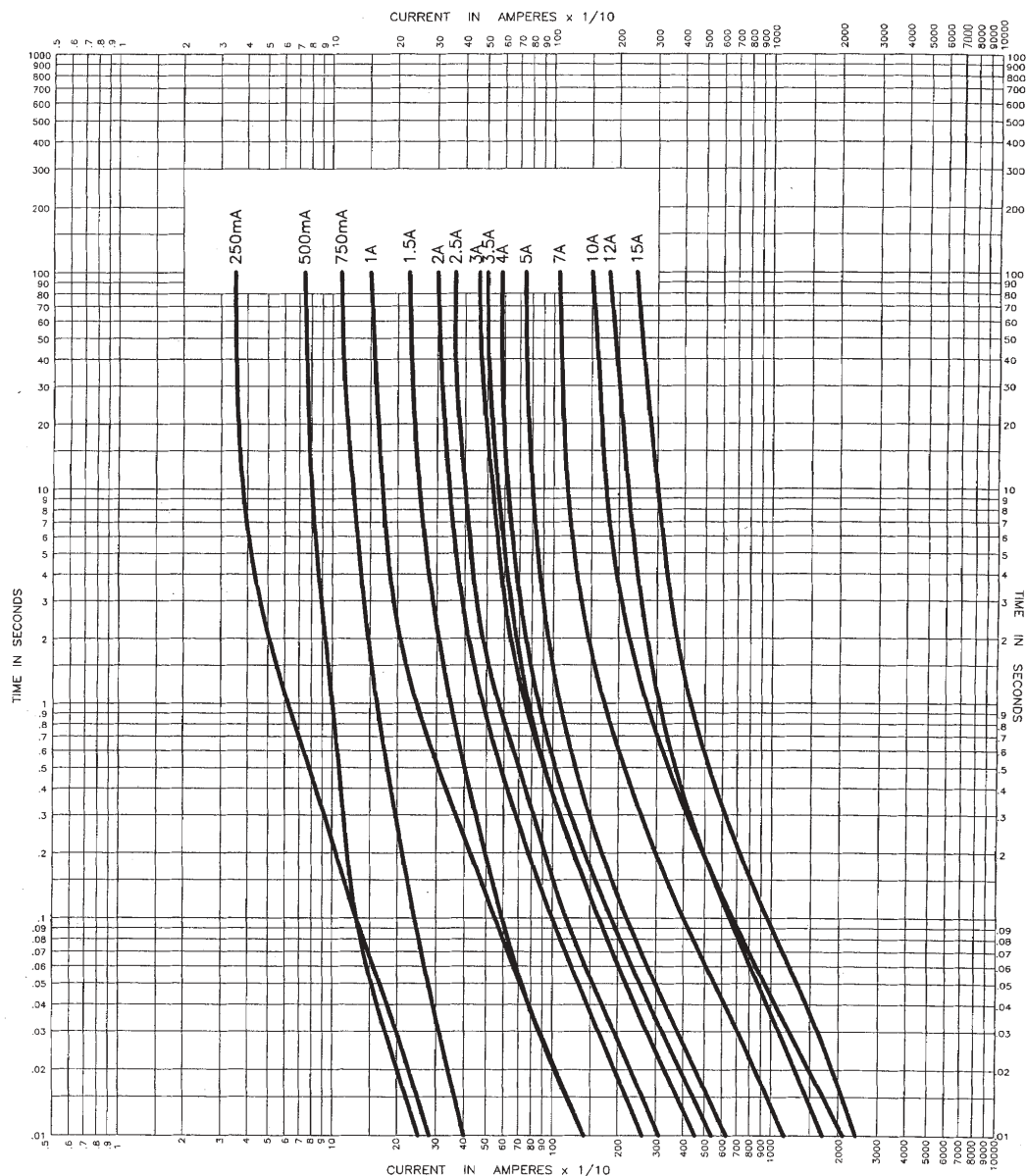
† Typical Melting I<sub>t</sub> (Measured with a battery bank at rated DC voltage, 10x-rated current, but not exceeding the interrupting rating. Time constant of calibrated circuit less than 50 microseconds). Test current not to exceed interrupting rating of 50A.

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

‡‡ Marking Code - 3<sup>rd</sup> (U = USA, T = Taiwan and S = China)

• 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
SP1	50 piece sample
TR2	2,500 pieces of fuses on 24mm tape-and-reel on 13 inch (330mm) reel per EIA Standard 481