Description

- Time Delay surface mount fuse
- Environmentally rugged, satisfies EIA-IS-722 Standard
- Solder Immersion Compatible
- Targeted for Consumer Electronics
- Overcurrent protection of systems up to 125V
- Wire-in-air design

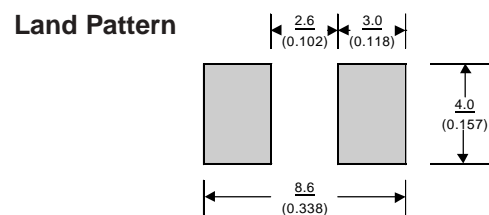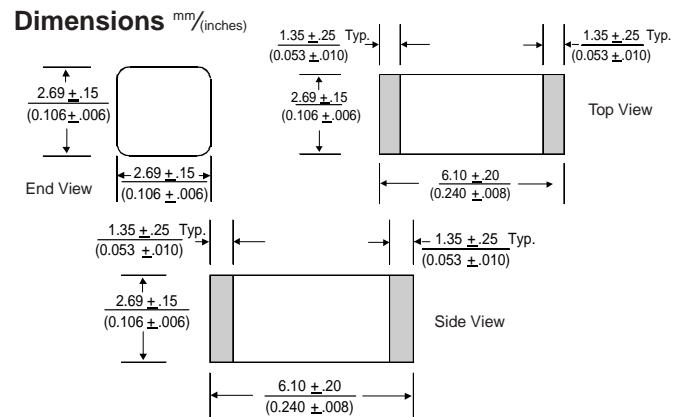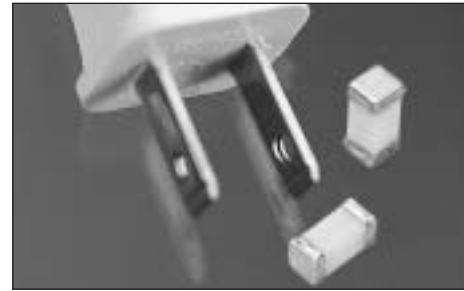| ELECTRICAL CHARACTERISTICS	
% of Amp Rating	**Opening Time**
100%	4 Hours Minimum
200%	1 Second Minimum
200%	2-4 Seconds Typical
200%	60 Seconds Maximum

Approvals

- UL Recognition Guide & File numbers: JDYX2 & E19180.
- CSA Certification Record No: 053787 C 000 & Class No: 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
- 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, Test Condition A
- High Frequency Vibration: MIL-STD-202, Method 204D, Test Condition D
- Resistance to Solvents: MIL-STD-202, Method 215A

Ordering

- Specify product code and packaging code

Dimensions mm/(inches)

1.35 ± .25 Typ. (0.053 ± .010)
2.69 ± .15 (0.106 ± .006)
2.69 ± .15 (0.106 ± .006)
End View
2.69 ± .15 (0.106 ± .006)
1.35 ± .25 Typ. (0.053 ± .010)
Top View
6.10 ± .20 (0.240 ± .008)
1.35 ± .25 Typ. (0.053 ± .010)
1.35 ± .25 Typ. (0.053 ± .010)
2.69 ± .15 (0.106 ± .006)
Side View
6.10 ± .20 (0.240 ± .008)

Land Pattern

2.6 (0.102)
3.0 (0.118)
4.0 (0.157)
8.6 (0.338)

Soldering Method

- Wave Immersion: 260°C, 3 sec max.
- Infrared: 260°C, 30 sec max.

SPECIFICATIONS									
Product Code	**Voltage Rating**		**Interrupting Rating***		**DC Cold Resistance** (ohms)			**Typical Melting I²t†**	**Typical Voltage Drop‡**
	AC	**DC**	**125VAC**	**60VDC**	**min.**	**typ.**	**max.**		
6125TD250mA	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
6125TD375mA	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
6125TD500mA	125V	60V	50A	50A	.335	.403	.470	0.716	245 mV
6125TD750mA	125V	60V	50A	50A	.200	.235	.270	1.07	250 mV
6125TD1A	125V	60V	50A	50A	.135	.168	.200	2.88	256 mV
6125TD1.5A	125V	60V	50A	50A	.055	.063	.070	2.35	125 mV
6125TD2A	125V	60V	50A	50A	.038	.048	.058	9.45	133 mV
6125TD2.5A	125V	60V	50A	50A	.028	.035	.042	16.2	130 mV
6125TD3A	125V	60V	50A	50A	.0225	.026	.030	15.3	97 mV
6125TD3.5A	125V	60V	50A	50A	.017	.020	.022	14.5	95 mV
6125TD4A	125V	60V	50A	50A	.016	.019	.021	38.8	106 mV
6125TD5A	125V	60V	50A	50A	.011	.013	.015	34.4	100 mV
6125TD7A	125V	60V	50A	50A	TBD	.009	TBD	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 I²t (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.

TIME CURRENT CURVE

CURRENT IN AMPERES

500mA 750mA 1A 1.5A 2A 2.5A 3A 3.5A 4A 5A 7A

TIME IN SECONDS

CURRENT IN AMPERES
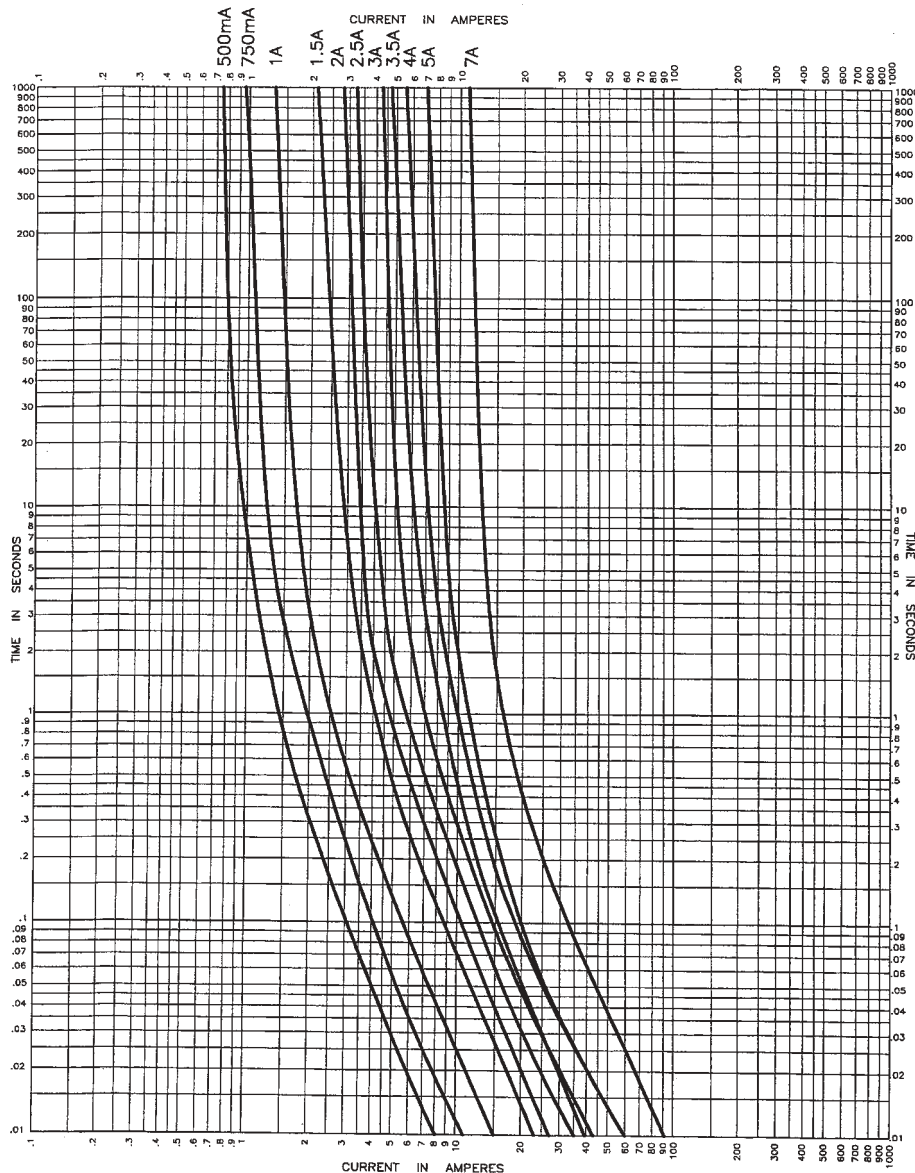
250mA and 375mA
to be determined

PACKAGING CODE

Packaging Code	Description
SP1	10 pieces of fuses on 12mm tape packaged in a plastic bag per EIA Standard 481
TR1	1000 pieces of fuses on 12mm tape-and-reel on a 7 inch (177mm) reel per EIA Standard 481
TR2	5000 pieces of fuses on 12mm tape-and-reel on 13 inch (330mm) reel per EIA Standard 481
TR3	50 pieces of fuses on 12mm tape packaged in a plastic box per EIA Standard 481

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