



# **Brick**<sup>™</sup> **Fuses** 1025TD Series, Time Delay

# **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%	1 Second Minimum				
200%	60 Seconds Maximum				
250% *	10 Seconds Maximum				

<sup>\*</sup> If fuse does not open @ 200% in 60 seconds, raise current to 250% and the fuse must open in 10 seconds maximum.

## **Agency Information**

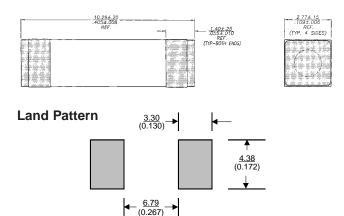
- UL Recognition Guide & File numbers: JDYX2 & E19180 (250mA - 5A)
- CSA Component Acceptance:
   File # 053787 C000, Class # 1422 30

#### **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



### **Ordering**

· Specify product code and packaging code

### **Soldering Method**

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

SPECIFICATIONS										
	Voltage		Interrupting		DC Cold	Typical	Typical	Marking		
Product Code	Rating		Rating*		Resistance** (ohms)	Melting Voltage		Cod	Code‡‡	
	AC	DC	250VAC	125VDC	Typical	l²t†	Drop‡	1st & 2nd	3 <sup>rd</sup>	
1025TD250mA	250V	125V	50A	50A	4.200	0.128	1900 mV	DD		
1025TD500mA	250V	125V	50A	50A	0.5500	1.47	455 mV	DF	- U, - T	
1025TD750mA	250V	125V	50A	50A	0.317	0.93	400 mV	DG		
1025TD1A	250V	125V	50A	50A	0.2030	9.91	387 mV	DH		
1025TD1.5A	250V	125V	50A	50A	0.1025	11.79	310 mV	DK		
1025TD2A	250V	125V	50A	50A	0.0680	17.27	250 mV	DN		
1025TD2.5A	250V	125V	50A	50A	0.0420	16.51	201 mV	DO	or S	
1025TD3A	250V	125V	50A	50A	0.0330	42.74	184 mV	DP	3	
1025TD3.5A	250V	125V	50A	50A	0.0270	43.33	180 mV	DR		
1025TD4A	250V	125V	50A	50A	0.0220	66.96	152 mV	DS		
1025TD5A	250V	125V	50A	50A	0.0160	88.38	145 mV	DT		

<sup>\*</sup> AC Interrupting Rating (Measured at designated voltage, 100% power factor random closing); DC Interrupting Rating (Measured at designated voltage, time constant of the calibrated circuit is less than 50 microseconds, battery source)

<sup>\*\*</sup> DC Cold Resistance (Measured at ≤10% of rated current)

<sup>†</sup> Typical Melting I²t (Measured with a battery bank at rated DC voltage, 10x-rated current, time constant of calibrated circuit less than 50 microseconds)

<sup>‡</sup> Typical Voltage Drop (Measured at rated current after temperature stabilizes)

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

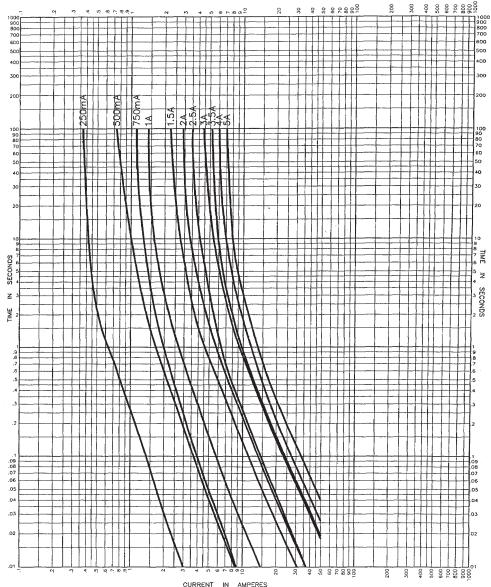
Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at
elevated ambient temperatures.





# 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			



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