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BUSSMANN SERIES

1025TD

Time-delay surface mount fuse





Product features

- Time-delay surface mount fuse
- Satisfies the EIA/IS-722 Standard
- Solder immersion compatible

Agency information

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

Soldering method

• Wave immersion: 260°C, 10 Sec. max. • Infrared reflow: 260°C, 30 Sec. max.

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-
- 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

Ordering

Specify packaging and product code (i.e., TR2/1025TD250-R)

Electrical Characteristics				
% of Amp Rating	Opening Time			
100%	4 Hours Minimum			
200%	1 Second Minimum			
200%	60 Seconds Maximum			
250% *	10 Seconds Maximum			

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

Specifications DC Cold								
	Current	Volt	age	Interru	upting	Resistance** (Ω)	Typical	Typical
Product Code	Rating	Rat	ing	Rat	ing*	nesistance (22)	Melting	Voltage
	Amps	AC	DC	250Vac	125Vdc	Typical	l²t†	Drop‡
1025TD250-R	250mA	250	125	50A	50A	4.200	0.128	1900 mV
1025TD500-R	500mA	250	125	50A	50A	0.5500	1.47	455 mV
1025TD750-R	750mA	250	125	50A	50A	0.317	0.93	400 mV
1025TD1-R	1	250	125	50A	50A	0.2030	9.91	387 mV
1025TD1.5-R	1.5	250	125	50A	50A	0.1025	11.79	310 mV
1025TD2-R	2	250	125	50A	50A	0.0680	17.27	250 mV
1025TD2.5-R	2.5	250	125	50A	50A	0.0420	16.51	201 mV
1025TD3-R	3	250	125	50A	50A	0.0330	42.74	184 mV
1025TD3.5-R	3.5	250	125	50A	50A	0.0270	43.33	180 mV
1025TD4-R	4	250	125	50A	50A	0.0220	66.96	152 mV
1025TD5-R	5	250	125	50A	50A	0.0160	88.38	145 mV

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)

⁻ 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



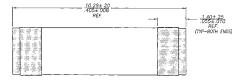
^{**} DC Cold Resistance (Measured at ≤10% of rated current)

[†] Typical Melting I 2t (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)

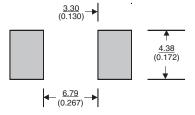
Dimensions - mm (in)

Drawing Not to Scale

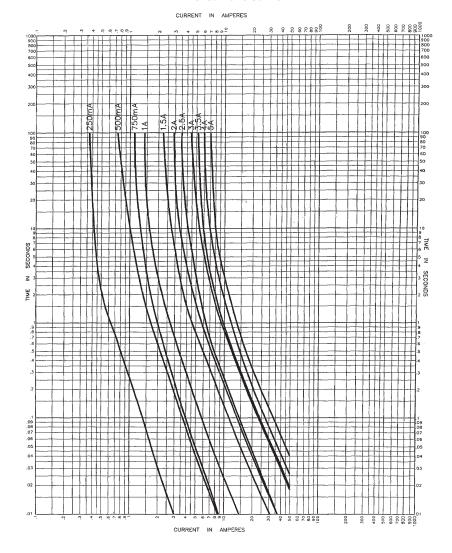




Recommended Pad Layout - mm (in)



Time-Current Curve



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

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