

Description

- Protects against harmful overcurrents in secondary applications
- High inrush withstand capability
- Wire-in-Air performance
- Compatible with leaded and lead-free reflow and wave solder

ELECTRICAL CHARACTERISTICS	
% of Amp Rating	Opening Time
100%	4 Hours Minimum
200%	1 sec. minimum, 120 sec. maximum
300%	0.05 sec. minimum, 3 sec. maximum
800%	0.002 sec. minimum, 0.05 sec. maximum

Agency Information

- **cULus** Recognition File number: E19180, Volume 13

Environmental Data

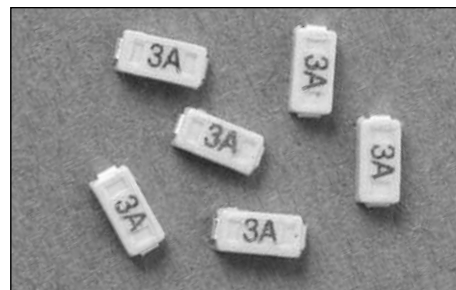
- Thermal Shock: Withstands 5 cycles of -55°C & 125°C
- Vibration: MIL-STD-202F, Method 201A, Method 204D Condition D
- Solderability: ANSI/J-STD-002, Test B

Ordering

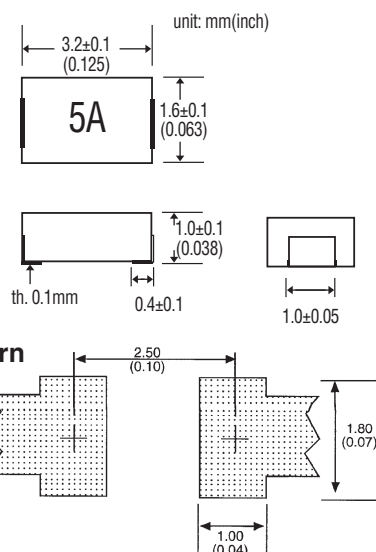
- Specify packaging and product code (i.e. TR/3216TD1-R)

Soldering Method

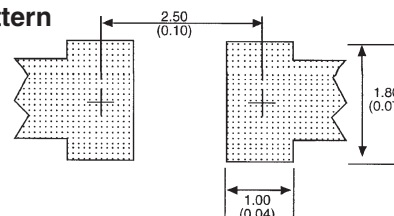
- Wave Immersion: 260°C, 10 sec max.
- Infrared Reflow: 260°C, 30 sec max.
- Hand Solder: 350°C, 3 sec max.



Dimensions mm/(inches)
Drawing Not to Scale



Land Pattern



SPECIFICATIONS

Product Code	Current Rating	Voltage Rating		Interrupting Rating* AC/DC	Resistance (ohms)** Typ.	Typical Melt I ² t† DC	Typical Voltage Drop (V)‡
		AC	DC				
3216TD1-R	1A	63 V	63 V	50 A	0.075	0.32	75
3216TD1.5-R	1.5A	32 V	32 V	35 A	0.050	0.62	75
3216TD2-R	2A	32 V	32 V	35 A	0.030	1.30	60
3216TD2.5-R	2.5A	32 V	32 V	35 A	0.022	2.25	55
3216TD3-R	3A	32 V	32 V	35 A	0.018	3.30	55
3216TD4-R	4A	32 V	32 V	35 A	0.0165	5.20	56
3216TD5-R	5A	32 V	32 V	35 A	0.015	8.40	66
3216TD6.3-R	6.3A	32 V	32 V	35 A	0.0120	13.8	75
3216TD7-R	7A	32 V	32 V	35 A	0.0095	16.9	67
3216TD10-R	10A	32 V	32 V	35 A	0.006	54.4	65
3216TD12-R	12A	32 V	32 V	35 A	0.005	64.0	65

* AC Interrupting Rating (Measured at rated voltage with a unity power factor); DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

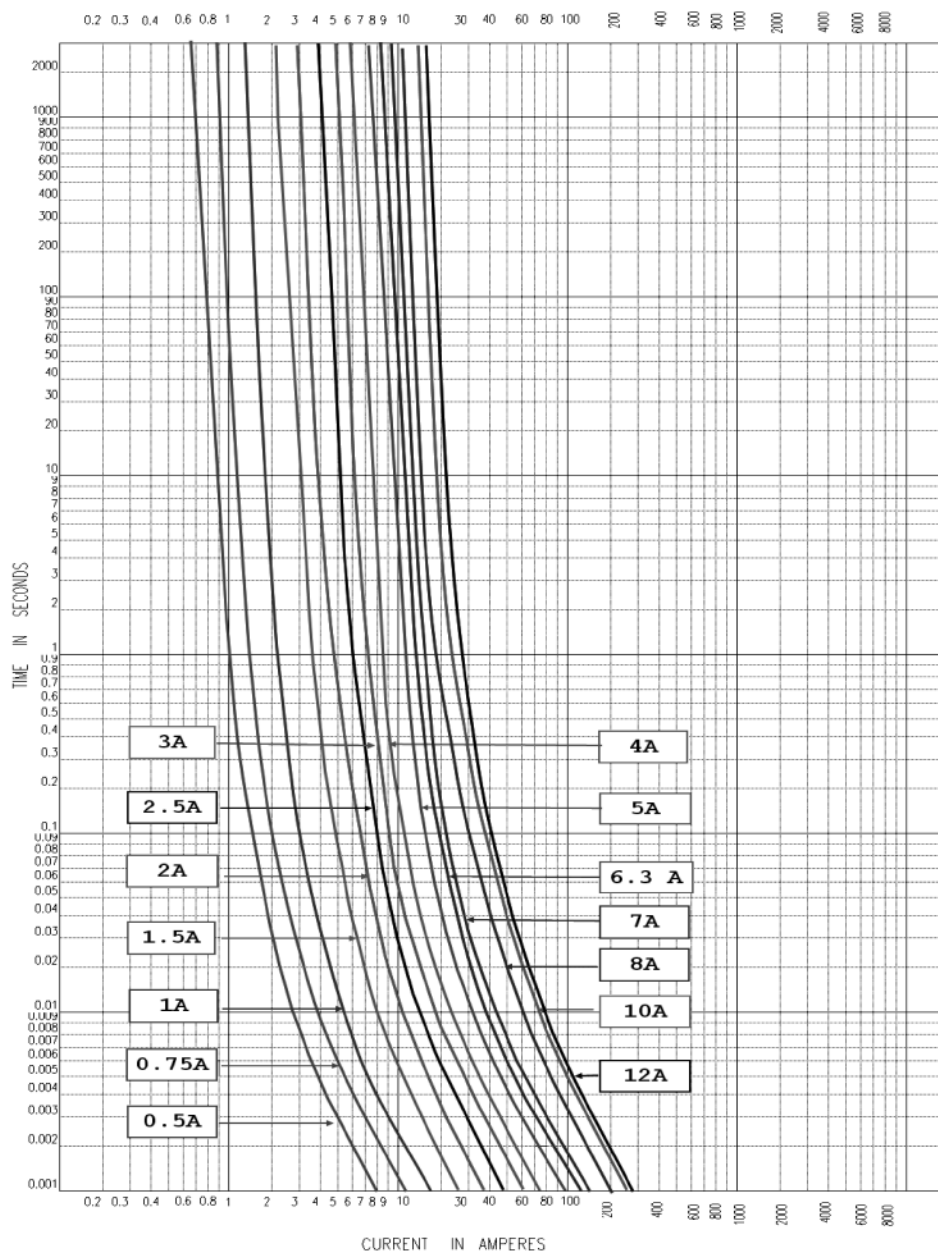
** DC Cold Resistance (Measured at 10% of rated current)

† Typical Melting I²t (Measured with a battery bank at rated DC voltage, 10x-rated current at 1 microsecond, not to exceed IR. Above 7a uses 70 micron thickness copper layer test board of IEC 60127-3. Others uses 35 micron thickness copper layer.)

‡ 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
TR	2,500 pieces of fuses on 12mm tape-and-reel on a 180mm reel per EIA-481-A & IEC286-3

North America

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