

3216TD

Time-delay Chip[™] surface mount fuse









Product features

- Time-delay, surface mount fuse
- RoHS compliant, lead-free and halogen-free
- High inrush withstand capability
- Wire-in-Air performance
- Compatible with leaded and lead-free reflow and wave solder

Agency information

• cURus Recognition File number: E19180

Environmental data

- Operating temperature range: -55 °C to +125 °C with proper derating
- Vibration: MIL-STD-202, Method 204 Condition D
- Solderability: ANSI/J-STD-002C, Test B

Soldering method

- Wave immersion: 260°C, 10 Sec. max.
- Infrared reflow: 260°C, 30 Sec. max.
- Hand solder: 350°C, 3 Sec. max.

Ordering

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

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					

				Specific	ations			
	Current			Inter	rupting	Typical	Typical	Typical
Product Code	Rating	Voltage Rating		Rating (Amps)*		Resistance	Melt I²t†	Voltage
	Amps	Vac	Vdc	AC	DC	(Ω)**	DC	Drop (mV)‡
3216TD6.3-R	6.3	32	32	35	35	0.006	10.54	56
3216TD7-R	7	32	32	35	35	0.006	12.03	64
3216TD8-R	8	32	32	35	35	0.0055	16.03	65
3216TD10-R	10	32	32	35	35	0.0045	42.71	72
3216TD12-R	12	32	32	35	35	0.00425	45.56	79

^{*} 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)

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 temperatu



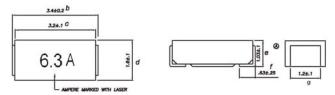
^{**} DC Cold Resistance (Measured at 10% of rated current)

[†] Typical Melting't (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.

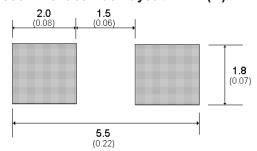
[‡] Typical Voltage Drop (Measured at rated current after temperature stabilizes)

Dimensions - mm (in)

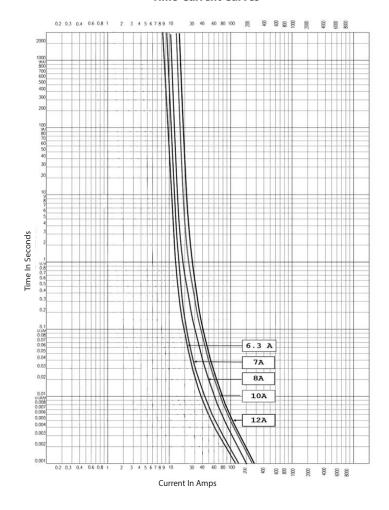
Drawing Not to Scale



Recommended Pad Layout - mm (in)



Time-Current Curves



Packaging				
Packaging Code Prefix	Description			
TR	TR 2500 fuses on 12mm tape-and-reel on a 180mm reel per EIA-481-A & IEC286-3			

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

Eaton Electronics Division

1000 Eaton Boulevard Cleveland, OH 44122

United States www.eaton.com/electronics

© 2017 Eaton All Rights Reserved Printed in USA Publication No. 4321 BU-SB10214 May 2017



Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Eaton:

<u>TR-3216TD500-R</u> <u>TR-3216TD750-R</u> <u>TR-3216TD800-R</u> <u>TR-3216TD8-R</u> <u>TR/3216TD6.3-R</u> <u>TR/3216TD12-R</u> TR/3216TD7-R TR/3216TD10-R TR/3216TD8-R