

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

Specifications							
Product Code	Current Rating Amps	Voltage Rating		Interrupting Rating (Amps)*		Typical Resistance (Ω)**	Typical Melt I ² t†
		Vac	Vdc	AC	DC		
3216TD6.3-R	6.3	32	32	35	35	0.006	10.54
3216TD7-R	7	32	32	35	35	0.006	12.03
3216TD8-R	8	32	32	35	35	0.0055	16.03
3216TD10-R	10	32	32	35	35	0.0045	42.71
3216TD12-R	12	32	32	35	35	0.00425	45.56

* 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† (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.

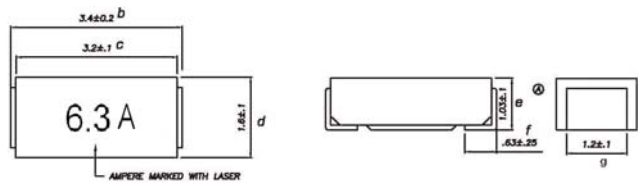
‡ Typical Voltage Drop (Measured at rated current after temperature stabilizes)

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 temperature

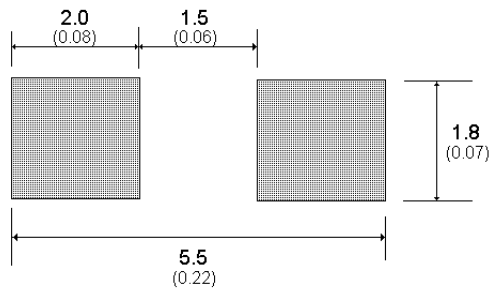


Powering Business Worldwide

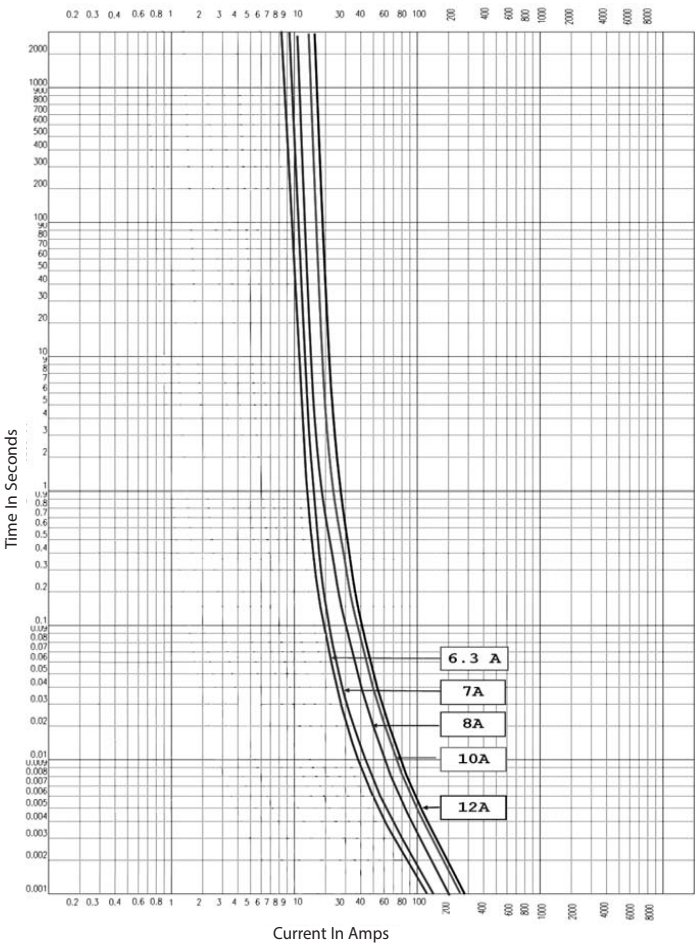
Dimensions - mm (in)
Drawing Not to Scale



Recommended Pad Layout - mm (in)



Time-Current Curves



Packaging	
Packaging Code Prefix	Description
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.