

# 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 <sup>††</sup> DC	Typical Voltage Drop (mV)‡
		Vac	Vdc	AC	DC			
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)

\*\* 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)

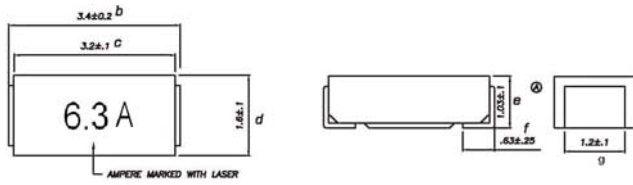
Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperature



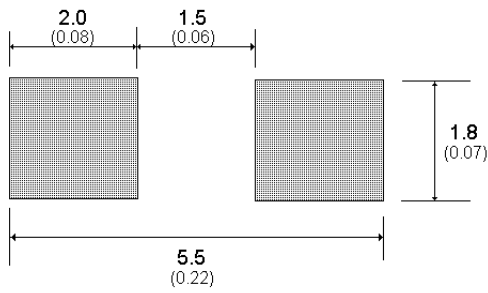
Powering Business Worldwide

**Dimensions - mm (in)**

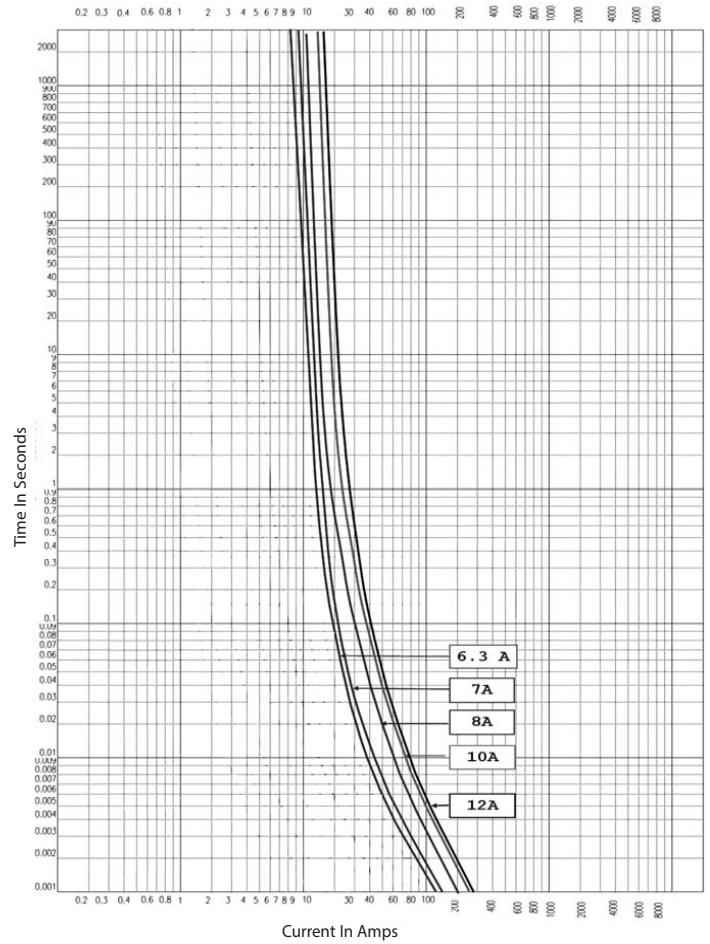
Drawing Not to Scale



**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

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