

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Chip[™] Fuses 3216TD Series, Time-Delay



Description

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

Agency Information

• c Recognition File number: E19180

Environmental Data

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

Ordering

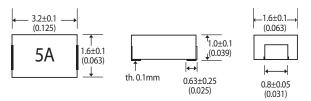
 Specify packaging and product code (i.e., TR/3216TD1-R)

Soldering Method

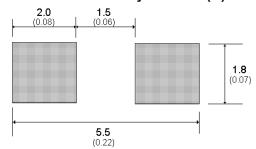
- Wave immersion: 260°C, 10 Sec. max.
 Infrared reflow: 260°C, 30 Sec. max.
- Hand solder: 350°C, 3 Sec. max.

Dimensions - mm (in)

Drawing Not to Scale



Recommended Pad Layout - mm (in)



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	Voltage Rating		Interrupting Rating (Amps)*		Resistance (Ω)**	Typical Melt I²t†	Typical Voltage	
	Amps	Vac	Vdc	AC	DC	Typ.	DC	Drop (V)‡	
3216TD500-R	0.5	63	32	50	35	0.150	0.064	75	
3216TD750-R	0.75	63	32	50	35	0.100	0.12	75	
3216TD800-R	0.8	63	32	50	35	0.087	0.16	75	
3216TD1-R	1	63	32	50	35	0.075	0.32	75	
3216TD1.5-R	1.5	32	32	35	35	0.050	0.62	75	
3216TD2-R	2	32	32	35	35	0.030	1.30	60	
3216TD2.5-R	2.5	32	32	35	35	0.022	2.25	55	
3216TD3-R	3	32	32	35	35	0.018	3.30	55	
3216TD4-R	4	32	32	35	35	0.0165	5.20	56	
3216TD5-R	5	32	32	35	35	0.015	8.40	66	
3216TD6.3-R	6.3	32	32	35	35	0.0120	13.8	75	
3216TD7-R	7	32	32	35	35	0.0095	18.0	67	
3216TD8-R	8	32	32	35	35	0.0083	38.0	65	
3216TD10-R	10	32	32	35	35	0.006	54.4	65	
3216TD12-R	12	32	32	35	35	0.005	64.0	65	

RoHS

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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)

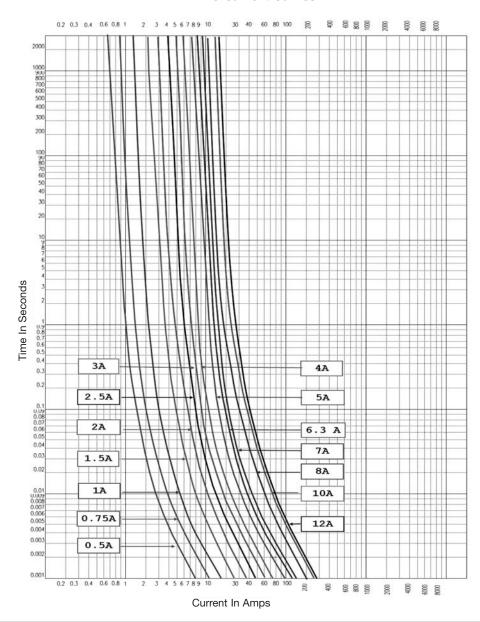
[†] Typical Melting Pt (Measured with a battery bank at rated DC voltage, 10x-rated current at 1 microsecond, not to exceed IR. Above 7A uses 70 micron thickness copper layer test board of IEC 60127-3.

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 Curves



Packaging Packaging				
Packaging Code Prefix	Description			
TR	2,500 fuses on 12mm tape-and-reel on a 180mm reel per EIA-481-A & IEC286-3			

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