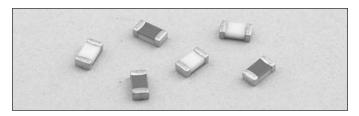


Chip[™] Fuses 3216FF Series, Fast-Acting









Description

- Fast-acting surface mount fuse
- · Ratings up to 30 amps
- · Excellent temperature and cycling characteristics
- · Compatible with reflow and wave solder

Agency Information

- UL Recognition Guide JDYX2 & File E19180.
- CSA Component Acceptance: 053787 C 000 & Class No: 1422 30.
- Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to 125°C)
- Vibration: MIL-STD-202, Method 204, Test Condition C (55Hz - 2kHz, 10G)
- Moisture Resistance: MIL-STD-202, Method 106, 10 day cycle
- Solderability: ANSI/J-STD-002, Test B
- Additional resistance to solder heat teast: MIL-STD-202G Method 210F Condition A
- Operating Temperature: -55°C to 125°C

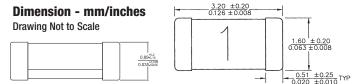
Ordering

 Specify packaging and product code (i.e., TR/3216FF250-R)

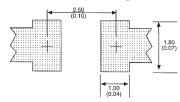
Soldering Method

Wave Immersion: 260°C, 10 sec max.
Infrared Reflow: 260°C, 30 sec max.

Electrical Characteristics					
Amp Rating	% of Amp Rating	Opening Time			
250mA - 30A	100%	4 Hrs. Min.			
1.25A - 3A	200%	60 Sec. Max.			
250mA - 3A	250%	5 Sec. Max.			
4A - 7A	350%	1 Sec. Max.			
10Δ - 30Δ	350%	5 Sec. Max			



Recommended Pad Layout - mm (in)



				Specificatio	ns				
Part	Volt Ratings		Interrupting Rating*	Typical DC Cold	Typical Melt	Typical Voltage	Agency Approvals		
Number	Vac	Vdc	(amps) AC/DC	Resistance (Ω)**	I2t (A2S) DC***	Drop (V)†	UR	CSA	cURus
3216FF250-R	32	63	50	3.5000	0.00038	1.40	Х	Х	
3216FF375-R	32	63	50	1.7500	0.00077	0.73	Х	Х	
3216FF500-R	32	63	50	0.9800	0.00190	0.66	Х	Х	
3216FF750-R	32	63	50	0.5400	0.0053	0.63	X	X	
3216FF1-R	32	63	50	0.2190	0.030	0.20	Х	Х	
3216FF1.25-R	32	63	50	0.1700	0.046	0.18	Х	Х	
3216FF1.5-R	32	63	50	0.1190	0.093	0.18	X	X	
3216FF2-R	32	63	50	0.0660	0.126	0.16	X	Χ	
3216FF2.5-R	32	63	50	0.0460	0.260	0.14	X	Χ	
3216FF3-R	32	63	50	0.0360	0.275	0.13	Χ	Χ	
3216FF4-R	32	32	50	0.0180	0.337	0.11	X	Χ	
3216FF4.5-R	32	32	50	0.0160	0.405	0.10	Χ	X	
3216FF5-R	32	32	50	0.0140	0.534	0.09	X	X	
3216FF6.5-R	32	32	50	0.0086	2.294	0.076	X	X	
3216FF7-R	32	32	50	0.0070	3.623	0.078	Х	Х	
3216FF10-R		24	150	0.0045	2.0	0.062	Х		Х
3216FF12-R		24	150	0.0039	7.0	0.070	Х		Х
3216FF15-R		24	150	0.0031	25.5	0.066	Х		Х
3216FF20-R		24	150	0.0018	48.6	0.060	Х		Х
3216FF25-R		24	250	0.0014	32.0	0.057	Х		Х
3216FF30-R		24	300	0.0012	43.0	0.068	Х		Х

^{*} 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 temperatures

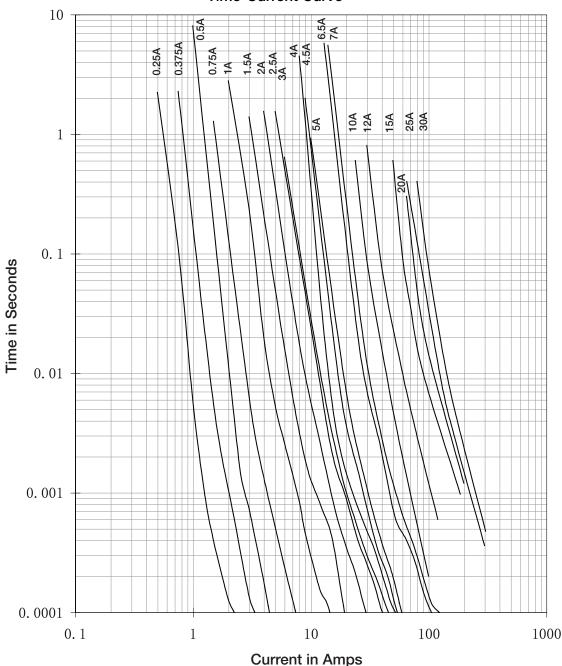


0411 BU-SB11302 Page 1 of 2 Data Sheet 3001

^{**}Typical DC Cold Resistance measured at 10% of rated current

^{***}Typical Melting I²t measured with a battery bank at rated DC voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microseconds (6.5A - 30A measured at interrupting rating) †Typical Voltage Drop measured at rated current after temperature stabilizes. It is recommended that fuses be mounted with ceramic (white) side facing up.

Time-Current Curve



Packaging				
Packaging Code Prefix	Description			
TR	3000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard RS481			

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0411 BU-SB11302 Page 2 of 2 Data Sheet 3001

Mouser Electronics

Authorized Distributor

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

Eaton:

<u>SP/3216FF-4A</u> <u>SP/3216FF-750MA</u> <u>SP/3216FF-1.5A</u> <u>SP/3216FF-1A</u> <u>SP/3216FF-2.5A</u> <u>SP/3216FF-250MA</u> <u>SP/3216FF-375MA</u> <u>SP/3216FF-3A</u> <u>SP/3216FF-3A</u> <u>SP/3216FF-4.5A</u> <u>SP/3216FF-500MA</u> <u>SP/3216FF-5A</u> SP/3216FF-6.5A SP/3216FF-7A TR/3216FF-5A TR/3216FF-4A TR/3216FF-3A