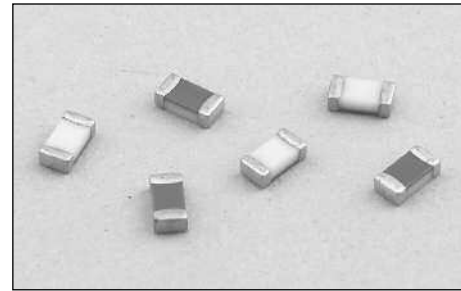


### Description

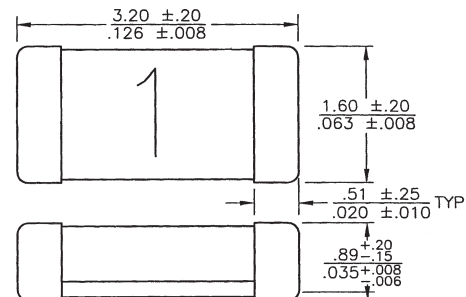
- Fast acting surface mount fuse
- Ratings up to 20A
- Excellent temperature and cycling characteristics
- Compatible with reflow and wave solder

### Agency Information

ELECTRICAL CHARACTERISTICS		
Ampere Rating	% of Amp Rating	Opening Time
250mA - 7A	100%	4 Hours Minimum
1.25A - 3A	200%	60 Seconds Maximum
250mA - 3A	250%	5 Second Maximum
4A - 7A	350%	1 Second Maximum
15A - 20A	350%	5 Second Maximum



**Dimensions** mm/(inches)  
Drawing Not to Scale



- UL Recognition Guide & File numbers: JDYX2 & E19180.
- CSA Component Acceptance: 053787 C 000 & Class No: 1422 30.
- cULus Recognition File number: E19180 (15A - 20A)

### Environmental Data

- Thermal Shock: MIL-STD-202, Method 107, Test Condition B
- Vibration: MIL-STD-202, Method 204, Test Condition C
- Moisture Resistance: MIL-STD-202, Method 106, 10 day cycle
- Solderability: ANSI/J-STD-002, Test B

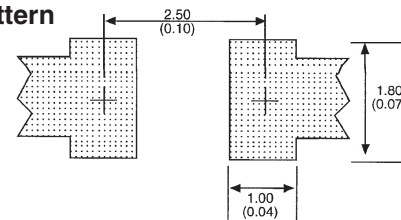
### Ordering

- 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.

### Land Pattern



## SPECIFICATIONS

Product Code	Current Rating	Voltage Rating		Interrupting Rating* AC/DC	Resistance (ohms)** Typ.	Typical Melt I <sup>2</sup> t† DC	Typical Voltage Drop (V)‡
		AC	DC				
3216FF250-R	250mA	32 V	63 V	50 A	3.0	0.00038	1.4
3216FF375-R	375mA	32 V	63 V	50 A	1.75	0.00077	0.73
3216FF500-R	500mA	32 V	63 V	50 A	0.98	0.0019	0.66
3216FF750-R	750mA	32 V	63 V	50 A	0.50	0.0053	0.63
3216FF1-R	1A	32 V	63 V	50 A	0.24	0.030	0.20
3216FF1.25-R	1.25A	32 V	63 V	50 A	0.135	0.060	0.19
3216FF1.5-R	1.5A	32 V	63 V	50 A	0.119	0.093	0.18
3216FF2-R	2A	32 V	63 V	50 A	0.066	0.126	0.16
3216FF2.5-R	2.5A	32 V	63 V	50 A	0.046	0.260	0.14
3216FF3-R	3A	32 V	63 V	50 A	0.040	0.275	0.13
3216FF4-R	4A	32 V	32 V	50 A	0.018	0.337	0.11
3216FF4.5-R	4.5A	32 V	32 V	50 A	0.016	0.405	0.10
3216FF5-R	5A	32 V	32 V	50 A	0.014	0.534	0.09
3216FF6.5-R	6.5A	32 V	32 V	50 A	0.0082	2.294	0.076
3216FF7-R	7A	32 V	32 V	50 A	0.0078	3.623	0.078
3216FF15-R	15A	24 V	24 V	150 A	0.0031	25.5	0.065
3216FF20-R	20A	24 V	24 V	150 A	0.0018	48.6	0.058

\* 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)

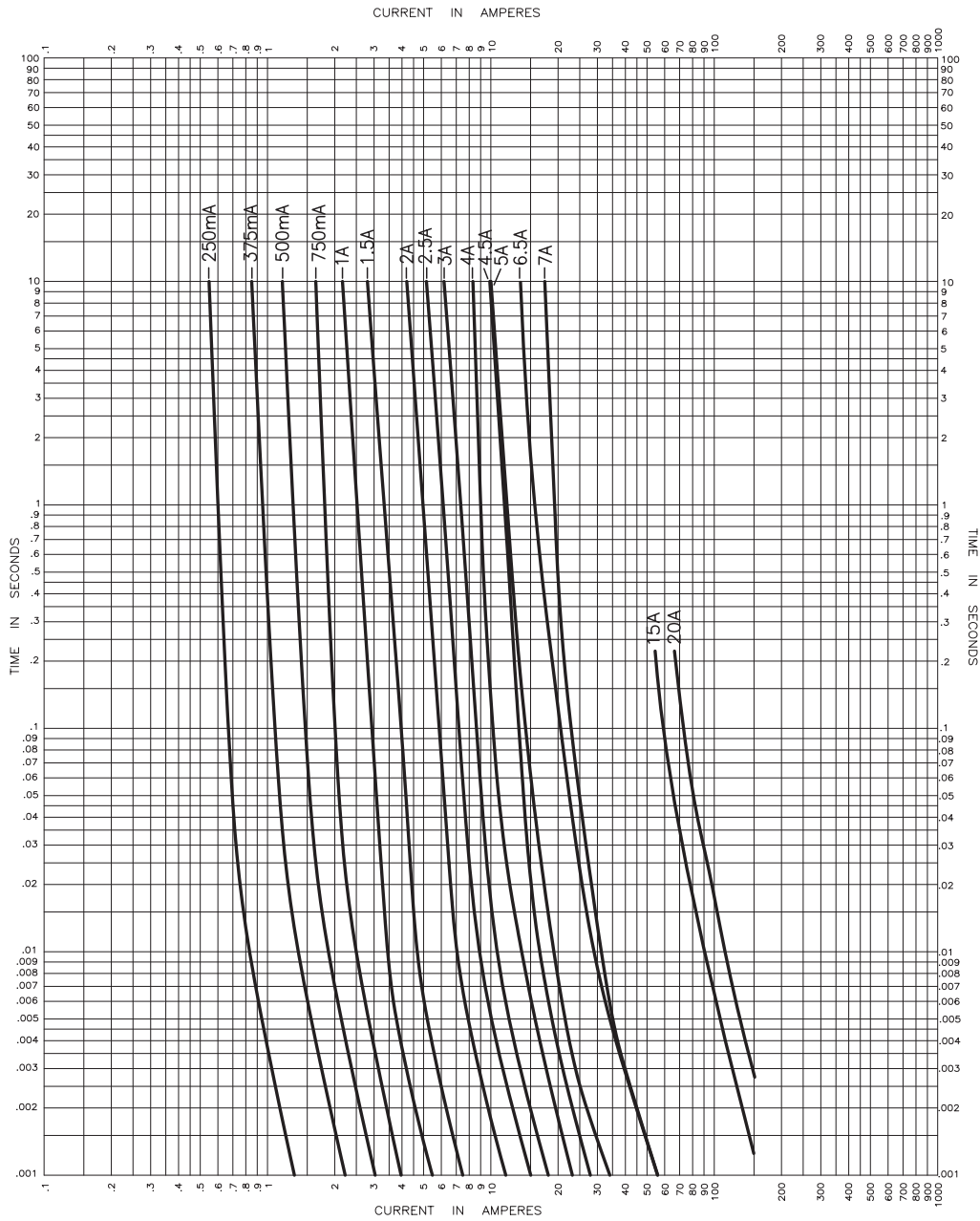
† Typical Melting I<sup>2</sup>t (Measured with a battery bank at rated DC voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microseconds) (6.5A & 7A measured at interrupting rating)

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

It is recommended that fuses be mounted with ceramic (white) side facing up.

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 CURVE**



PACKAGING CODE	
Packaging Code	Description
TR	3,000 pieces of fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481