



# **Chip™** Fuses 3216CP Series Circuit Protector

# **Description**

- · Surface mount circuit protector
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Ampere rating marked and oriented facing up in carrier
- Solder-free design provides excellent temperature cycling
- Heat and shock tolerant

ELECTRICAL CHARACTERISTICS		
% of Amp Rating Opening Time		
100%	4 Hours Minimum	
250%	10 Seconds Maximum	
600%	1 millisecond typical	

## **Agency Information**

- UL Recognition Guide & File numbers: JDYX2 & E19180.
- CSA Component Acceptance: 053787 C 000 & Class No: 1422 30.

#### **Environmental Data**

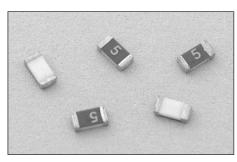
- Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to 125°C)
- Vibration: MIL-STD-202, Method 204, Test Condition C (55 to 2000 Hz, 10G)
- Moisture Resistance: MIL-STD-202, Method 106, 10 day cycle
- Solderability: ANSI/J-STD-002, Test B

#### **Soldering Method**

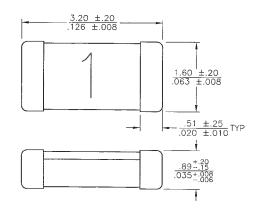
• Wave Solder: 260°C, 10 sec max. Infrared Reflow: 260°C, 30 sec max.

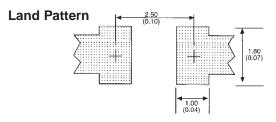
### **Ordering**

Specify product code and packaging code



Dimensions mm/(inches) Drawing Not to Scale





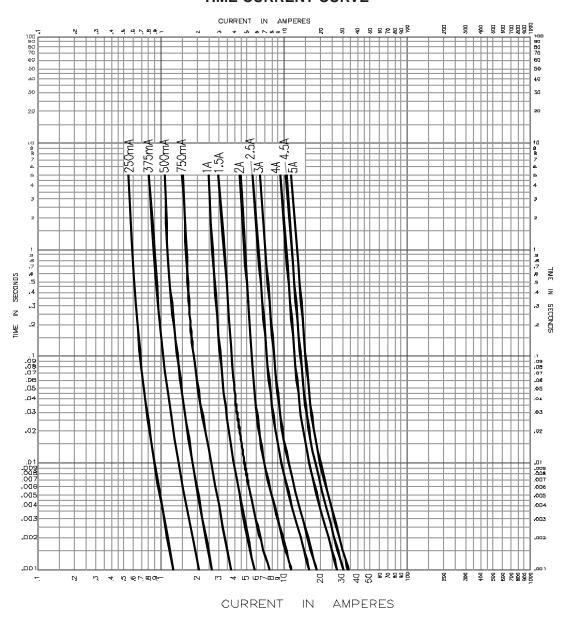
SPECIFICATIONS						
Product Code	Voltage Rating (DC)	Interrupting Rating* 24V DC	Resistance (ohms)** Typ.	Typical Melt I²t†	Typical Voltage Drop (V)‡	
3216CP-250mA	24V	35A	4.50	0.000084	1.4	
3216CP-375mA	24V	35A	1.80	0.0002	0.73	
3216CP-500mA	24V	35A	1.15	0.0019	0.66	
3216CP-750mA	24V	35A	0.75	0.00095	0.63	
3216CP-1A	24V	35A	0.168	0.007	0.2	
3216CP-1.5A	24V	35A	0.098	0.029	0.18	
3216CP-2A	24V	35A	0.063	0.049	0.16	
3216CP-2.5A	24V	35A	0.046	0.112	0.14	
3216CP-3A	24V	35A	0.037	0.165	0.13	
3216CP-4A	24V	35A	0.019	0.189	0.11	
3216CP-4.5A	24V	35A	0.014	0.328	0.1	
3216CP-5A	24V	35A	0.013	0.619	0.09	

- DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance (Measured at 10% of rated current)
  Typical Melting I²t (Measured with a battery bank at rated DC voltage, 10x-rated current, time constant of calibrated circuit less than 50 microseconds)
- Typical Voltage Drop (Measured at rated current after temperature stabilizes)
- It is recommended that fuses be mounted with glass (blue) 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		
SP	50 piece sample pack		
TR	3,000 pieces of fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard RS481		



OC-2533 Rev. C 5/03 Vis

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