

# Fast-Acting Current Fuses

## 2410

multicomp PRO



RoHS  
Compliant

### Description

The BH240 plastic holder is adapted with SMD fuse 2410 of voltage 125V/Ampere 10A. Plastic surface is not change and have a smooth surface.

### Application

Used in notebook PC, telecom system, LCD/PDP TV, wireless goods, LCD monitor, white goods, LCD/PDP panel, game console, power supply, net working and other electronics products.

### Features

- Rapid interruption of excessive current
- Compatible with reflow and wave soldering
- Ceramic body and silver plated copper terminal
- Excellent environmental integrity
- One time positive disconnect
- Lead-free and Halogen-free
- Designed to UL 248-14

### Specifications

Rated Voltage	: 125V AC/DC.
Current Range	: 500mA to 15A
Operating Temperature	: -55°C to +150°C
Storage Conditions	: +10°C to +60°C
Relative Humidity	: ≤ 75% yearly average without dew, maximum 30 days at 95%
Vibration Resistance	: 24 cycles at 15 min. each 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

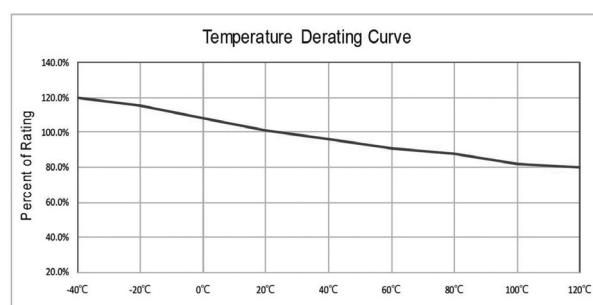
### Electrical Characteristics

Load capacity	: Load 100% rated current (i.e. $1.0 \times \ln A$ ) for flowing, it can be continuously energized for at least 4 hour without any opening phenomenon.
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**Time vs Current Characteristics Table**  
(measured with constant current power supply)

IT Characteristics		
Rated current	100%	200%
500mA to 15A	>4h	≤5s

**Temperature derating curve**



Calculation for ideal fuse selection =  $\frac{\text{Operating Current (A)}}{\text{Rating}} \times 0.75$

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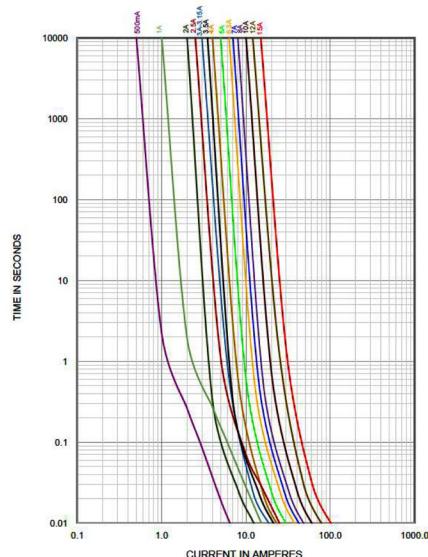
### Electrical Characteristics at 25°C

Amp Code	Rated Current	Rated Voltage DC	Breaking Capacity	Typical Voltage Drop (mV)	Nominal Melting I <sup>2</sup> T (A <sup>2</sup> s)	Typical Resistance (mΩ)
0500	500mA	125V AC 125V DC	50A @ 125V AC 300A @ 125V DC	250	0.48	281.1
1100	1A			200	2.80	103.1
1200	2A			110	1.45	26.72
1250	2.5A			110	6.17	17.86
1300	3A			110	3.09	18.01
1315	3.15A			110	3.11	17.98
1350	3.5A			110	4.08	15.48
1400	4A			110	5.12	12.81
1500	5A			110	8.68	10.04
1630	6.3A		63A @ 125V AC 300A @ 125V DC	110	13.5	8.09
1700	7A		70A @ 125V AC 300A @ 125V DC	110	17.5	7.3
1800	8A		80A @ 125V AC 300A @ 125V DC	110	22.8	6.35
2100	10A		100A @ 125V AC 300A @ 125V DC	110	35.3	5.1
2120	12A		50A @ 125V AC	110	63.4	4.1
2150	15A		50A @ 125V DC	110	102.8	3.14

1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)

2. The current values used for calculating I<sup>2</sup>T should be within the standard 10In.

### Average Time Current (I-T) Curves

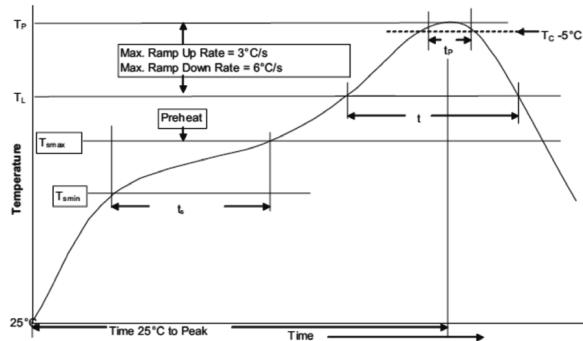


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### Soldering Parameters



#### 1. Infrared Reflow:

Temperature: 260°C

Time: 30sec Max.

Recommend reflow profile

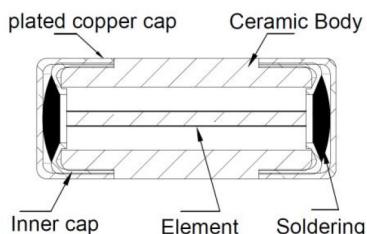
#### 2. Wave Soldering:

Reservoir Temperature: 260°C

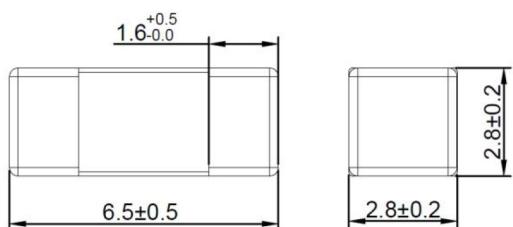
Time in Reservoir: 10sec Max.

Profile Feature	Pb-Free Assembly
Average Ramp-UP Rate(Tsmax to Tp)	3°C/s Max.
Preheat	Temperature Min (Ts min) 150°C
	Temperature Max (Ts max) 200°C
	Time (Tsmin to Ts max) 60sec to 120sec
Liquidous temperature(TL)	217°C
Time at liquidous(tL)	60 to 150S
Peak package body temperature (Tp)	260°C
Time (Tp to Tsmax)	30 Sec.
Average ramp-down rate (Tp to Tsmax)	6°C/s Max.
Time (25°C to Peak Temperature)	8 Minutes Max.

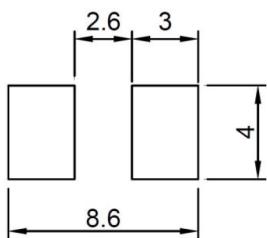
### Mechanical Specifications



### Diagram



### Recommended Land Pattern



### Material name and composition table

Part Name	Component	Volume
Cap	Silver plated copper cap	2
Inner cap	Nickel plating on copper cap	2
Tube body	Ceramic tube	1
Element	Alloy wire	1
Solder	Lead-free solder	-

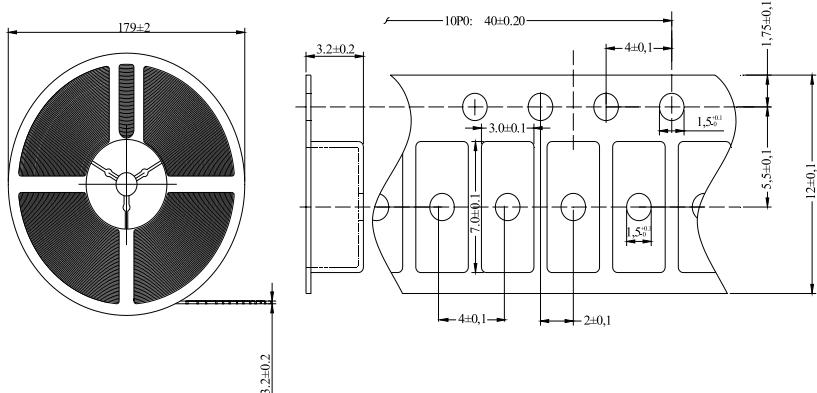
Dimensions : Millimetres

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### Packing Information



### Part Number Table

Description	Part Number
SMD Fuse, 2410, Fast Blow, 2A	MCCFB2410TFF/2
SMD Fuse, 2410, Fast Blow, 2.5A	MCCFB2410TFF/2.5
SMD Fuse with Holder, 2410, Fast Blow, 2.5A	MCCFB2410TFF/C/2.5
SMD Fuse with Holder, 2410, Fast Blow, 3A	MCCFB2410TFF/C/3
SMD Fuse, 2410, Fast Blow, 3A	MCCFB2410TFF/3
SMD Fuse with Holder, 2410, Fast Blow, 3.5A	MCCFB2410TFF/C/3.5
SMD Fuse, 2410, Fast Blow, 4A	MCCFB2410TFF/4
SMD Fuse with Holder, 2410, Fast Blow, 4A	MCCFB2410TFF/C/4
SMD Fuse, 2410, Fast Blow, 5A	MCCFB2410TFF/5
SMD Fuse with Holder, 2410, Fast Blow, 5A	MCCFB2410TFF/C/5
SMD Fuse with Holder, 2410, Fast Blow, 6.3A	MCCFB2410TFF/C/6.3
SMD Fuse, 2410, Fast Blow, 6.3A	MCCFB2410TFF/6.3
SMD Fuse, 2410, Fast Blow, 7A	MCCFB2410TFF/7
SMD Fuse, 2410, Fast Blow, 8A	MCCFB2410TFF/8
SMD Fuse with Holder, 2410, Fast Blow, 8A	MCCFB2410TFF/C/8
SMD Fuse with Holder, 2410, Fast Blow, 10A	MCCFB2410TFF/C/10
SMD Fuse, 2410, Fast Blow, 10A	MCCFB2410TFF/10
SMD Fuse, 2410, Fast Blow, 12A	MCCFB2410TFF/12
SMD Fuse, 2410, Fast Blow, 15A	MCCFB2410TFF/15

Dimensions : Millimetres

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