

Fast-Acting Miniature Cartridge Fuses

5mm x 20mm

multicomp PRO

**RoHS
Compliant**



Description

These fast-acting fuse with high breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This $\Phi 5\text{mm} \times 20\text{mm}$ device is constructed of a ceramic tube with electro-plated brass end caps. These fuses offers excellent quality and is 100% tested for cold resistance and precise length.

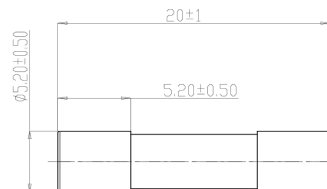
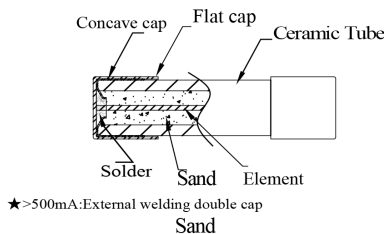


Features

- Miniature fuse with fast-acting, high breaking capacity
- $\Phi 5\text{mm} \times 20\text{mm}$ physical dimensions
- Glass tube, encapsulated design with nickel - plated brass end caps
- Protection against harmful over-currents in primary and secondary applications

Mechanical Specifications

- Operating Temperature : -55°C to 125°C
- Storage Conditions : $+10^{\circ}\text{C}$ to $+60^{\circ}\text{C}$
- Relative humidity : $\leq 75\%$ yearly average without dew, maximum 30 days at 95%
- Vibration Resistance : 24 cycles at 15 min. each (60068-6)
10-60Hz at 0.75mm amplitude
60-2000Hz at 10g acceleration



Dimensions : Millimetres

Electrical Specifications

Time vs Current Characteristics Table

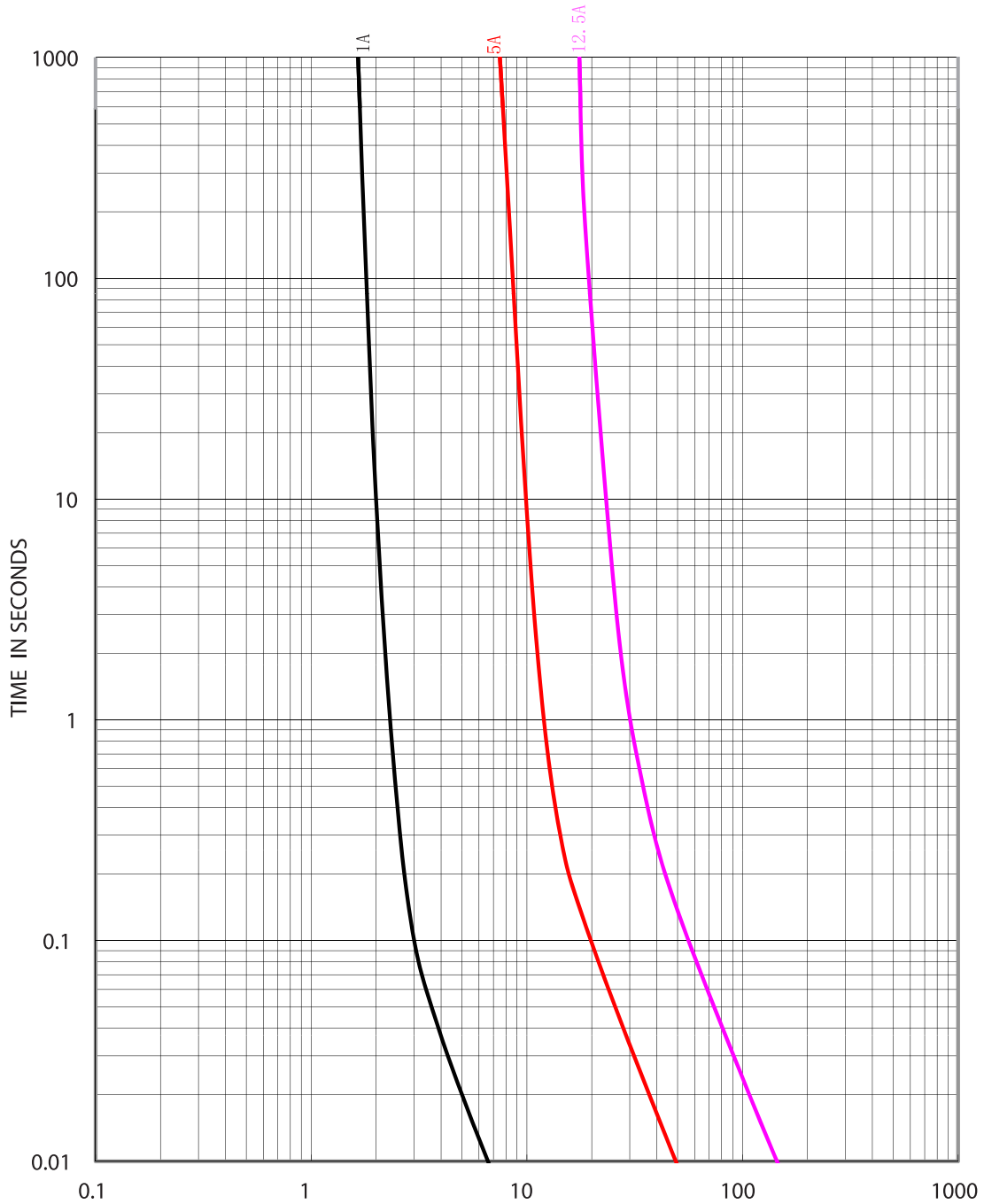
(measured with constant current power supply)

Time vs Current Characteristics: UL248-14					
Rated current	100%	210%	275%	400%	1000%
1A to 12.5A	>1h	<30min	40ms to 20s	10ms to 1s	$\leq 30\text{ms}$

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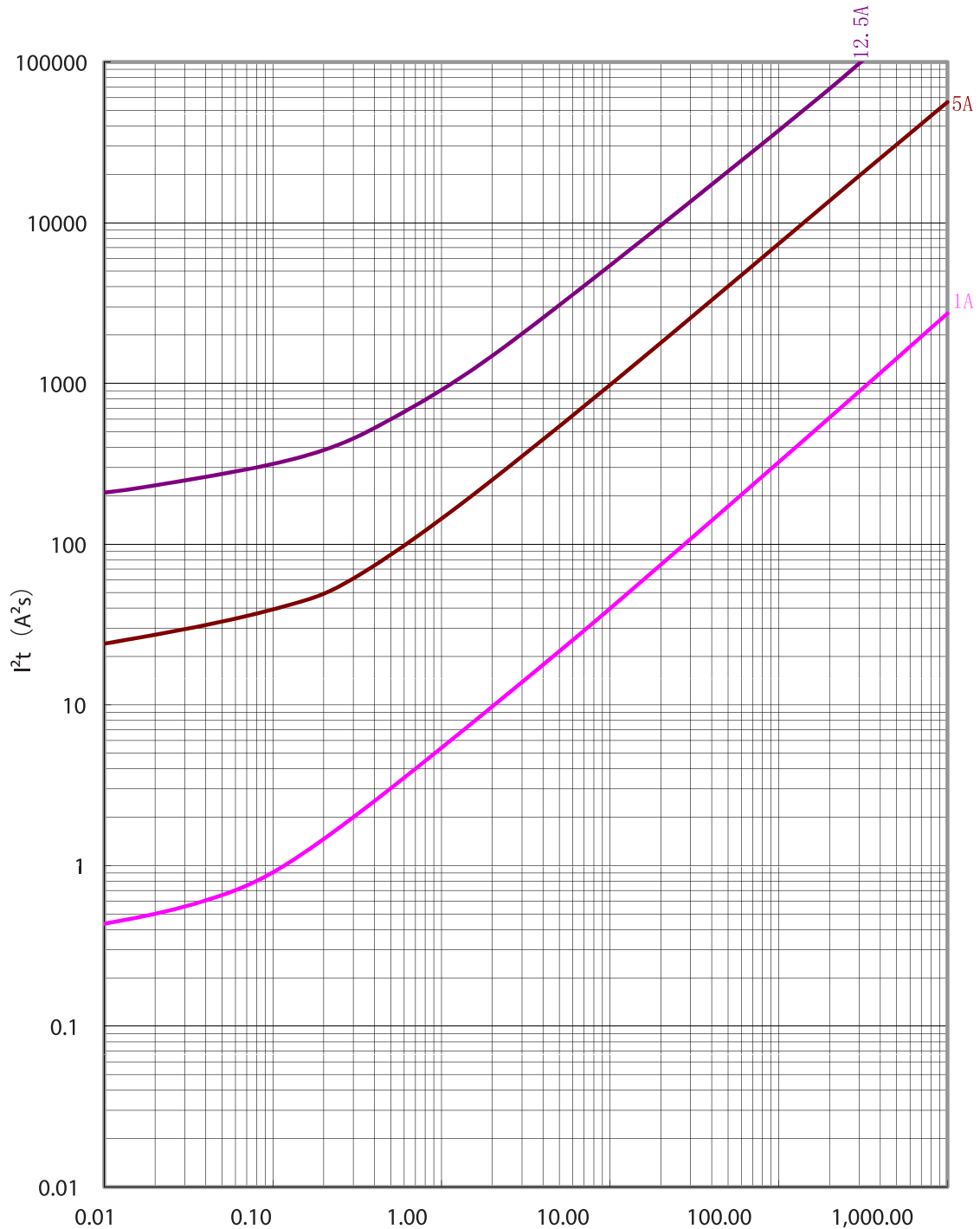
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Average Time Current (I-T) Curves



Fast-Acting Miniature Cartridge Fuses 5mm x 20mm

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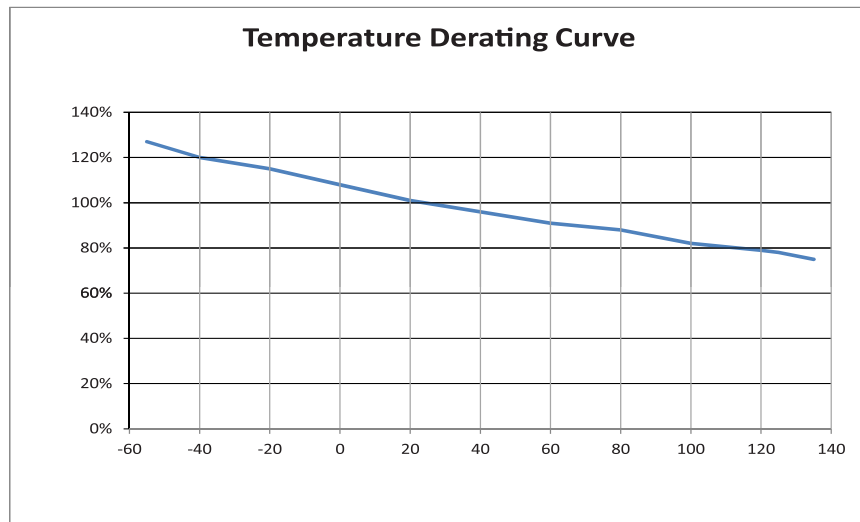


Electrical characteristics

Electrical Characteristics at 25°C							
Part Number	Rated Current	Rated Voltage	Nominal Melting I ² t (A ² sec)	Typical cold Resistance (mΩ)	Breaking Capacity	Approvals	
						cURus	TUV
MP007131	1A	250V AC	0.360	360	1500A@250V AC 1500A@300V AC		
MP007132	5A		23.92	20			
MP007130	12.5A		218.8	7.4			

Note: 1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)
 2. Typical pre-arcing I²t are measured at 10In current.

Temperature Derating Curve



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

Part Number Table

Description	Part Number
Fast-Acting Miniature Cartridge Fuse, 1A, 250V AC, 5mm x 20mm	MP007131
Fast-Acting Miniature Cartridge Fuse, 5A, 250V AC, 5mm x 20mm	MP007132
Fast-Acting Miniature Cartridge Fuse, 12.5A, 250V AC, 5mm x 20mm	MP007130

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