Fast-Acting Miniature Cartridge Fuses 5mm x 20mm



RoHS Compliant





These fast-acting fuse with low breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This $\Phi5mm\times20mm$ device is constructed of a glass 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, low breaking capacity
- Φ5mm × 20mm physical dimensions
- Glass tube, encapsulated design with nickel plated brass end caps
- Protection against harmful over-currents in primary and secondary applications

Mechanical Specifications

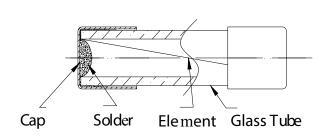
Operating Temperature : -55°C to 125°C Storage Conditions : +10°C to +60°C

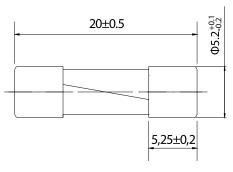
Relative humidity : ≤ 75% yearly average without dew,

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	150%	210%	275%	400%	1000%	
315mA to 5A	>1h	<30min	50ms~2s	10ms~300ms	≤20ms	
8A to 10A			501115~25	10ms~400ms	≤40ms	

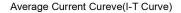
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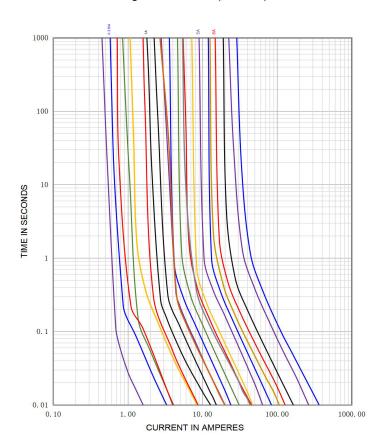


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Average Time Current (I-T) Curves





Electrical characteristics

Electrical Characteristics at 25°C												
Part Number Rated Current	Rated		Voltage Drop Max(mV)	Max Power Dissipation (W)	Typical Cold Resistance (mΩ)	Nominal Melting I ² T (A ² sec)	Breaking Capacity	Approvals				
	Current							cURus	CQC	VDE	PSE	ccc
MP007113	315mA		1300	1.6	860	0.109		•	0	•	0	•
MP007114	1A		200		101	1.64		•	0			_
MP007115	5A	250V AC		2.5	13.5	41	10KA/125V AC 100A/250V AC			_		•
MP007116	8A	1;	130	130 4	7.5	164				1 •	•	0
MP007117	10A				6.3	272			•			0

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

- 2. The cURus certification by 125V and 250V; the others certification by 250V.
- 3. The current values used for calculating l^2t should be within the standard range of 8ms ~ 10ms.

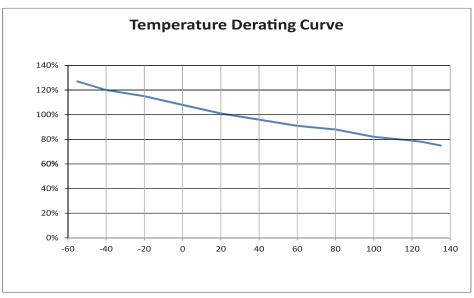
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Temperature Rerating Curve



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

Part Number Table

Description	Part Number	
Fast-Acting Miniature Cartridge Fuse, 315mA, 250V AC, 5mm x 20mm	MP007113	
Fast-Acting Miniature Cartridge Fuse, 1A, 250V AC, 5mm x 20mm	MP007114	
Fast-Acting Miniature Cartridge Fuse, 5A, 250V AC, 5mm x 20mm	MP007115	
Fast-Acting Miniature Cartridge Fuse, 8A, 250V AC, 5mm x 20mm	MP007116	
Fast-Acting Miniature Cartridge Fuse, 10A, 250V AC, 5mm x 20mm	MP007117	

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