

Fast-Acting Subminiature Cartridge Fuse Axial Leaded

multicomp PRO

**RoHS
Compliant**



Description

This fast-acting fuse with low breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This $\text{Ø}3.6 \times 10\text{mm}$ device is constructed as a glass tube with electro-plated brass end caps. This fuse offers excellent quality and is 100% tested for cold resistance and precise length.

Features

- Subminiature fuse with fast-acting, low breaking capacity
- $\text{Ø}3.6\text{mm} \times 10\text{mm}$ physical dimensions
- Glass tube, encapsulated design with nickel - plated brass end caps
- Protection against harmful over-currents in primary and secondary applications.
- Lead-free and Halogen-free
- Designed compliant to IEC60127-3/III

Specifications

Operating Temperature	: -55°C to +125°C
Storage Conditions	: +10°C to +60°C
Relative Humidity	: $\leq 75\%$ 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 Specifications

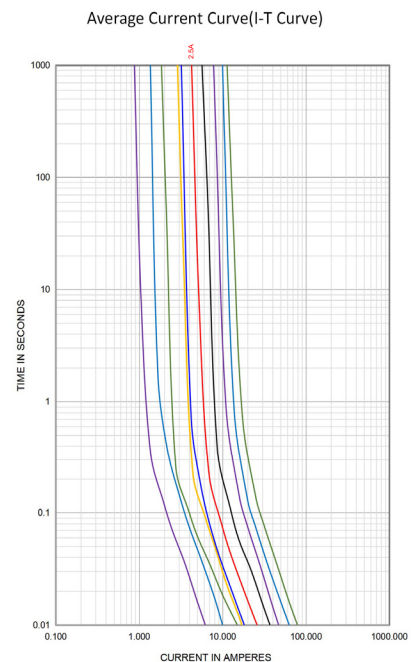
Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics: UL248-14			
Rated current	150%	210%	275%
2.5A and 3A	>1h	<30min	10ms~3s

Time vs Current Characteristics: UL248-14		
Rated current	400%	1000%
2.5A and 3A	3ms~400ms	$\leq 20\text{ms}$

Average Time Current (I-T) Curves



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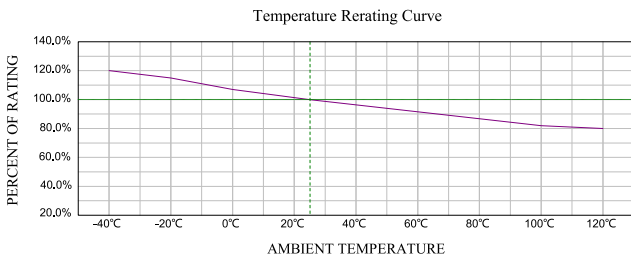
Electrical Characteristics at 25°C

Part Number	Amp Code	Rated Current	Max Voltage Drop (mV)	Max. Power Dissipation (mW)	Typical Cold Resistance (mΩ)	Nominal Melting I²T (A²s)	Breaking Capacity
MP007129	1250	2.5A	200	1313	19.9	6.75	50A/125V AC
MP007128	1300	3A	180	1488	16.4	7.88	35A or 10In/250V AC

Note:

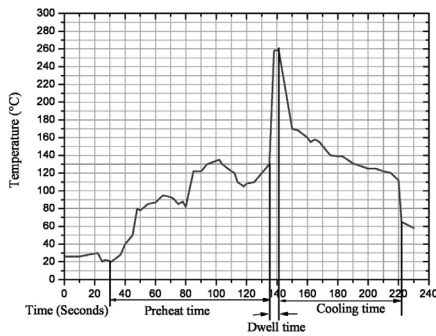
- (1) Permissible continuous operating current is 100% at ambient temperature of 23°C (73.4°F)
- (2) The current values used for calculating I²T should be within the standard range of 8ms~10ms.

Temperature Derating Curve



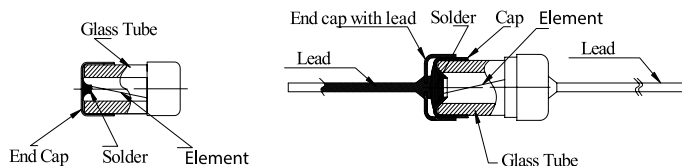
$$\text{Calculation for ideal fuse selection} = \frac{\text{Operating Current (A)}}{\text{Rating (\%} \times 0.75)}$$

Soldering Parameters



- 260°C ≤5 sec (Wave Soldering)
- 350°C ≤3 sec (Hand Soldering)
- Soldering Peak:
260°C - 10 sec (IEC 60068-20)

Mechanical Specifications



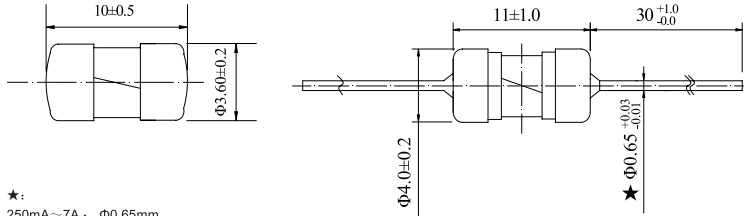
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sg.element14.com/b/multicomp-pro



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Diagram



★:
250mA~7A : $\Phi 0.65\text{mm}$
8A~10A : $\Phi 0.80\text{mm}$

Dimensions : Millimetres

Part Number Table

Description	Part Number
Fast-Acting Subminiature Cartridge Fuse, Axial Leaded, 3A, 250V AC, 3.6mm × 10mm	MP007128
Fast-Acting Subminiature Cartridge Fuse, Axial Leaded, 2.5A, 250V AC, 3.6mm × 10mm	MP007129

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