

**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 3.6mm × 10mm 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.

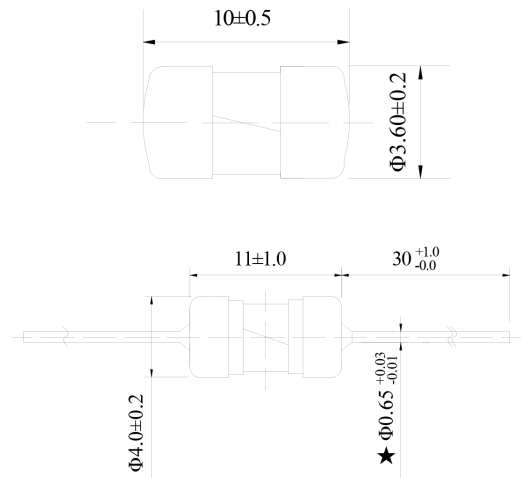
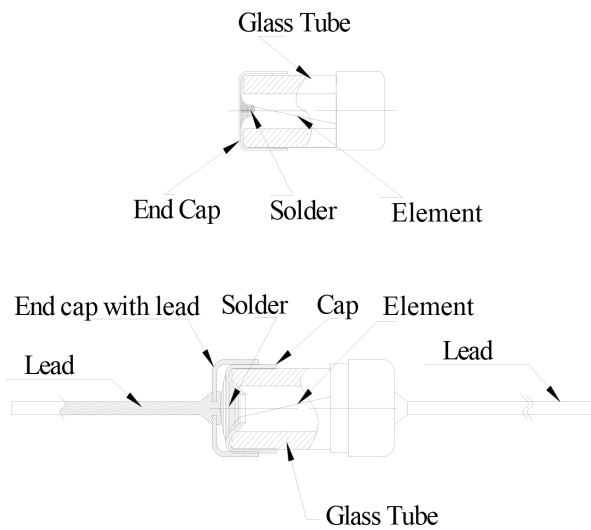


**Features**

- Subminiature fuse with fast-acting, low breaking capacity
- 3.6mm × 10mm physical dimensions
- Glass tube, encapsulated design with nickel - plated brass end caps
- Optional axial leads are  $\Phi 0.65\text{mm}$  @ 250mA~7A
- Protection against harmful over-currents in primary and secondary applications.

**Mechanical Specifications**

- Operating Temperature :  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$
- 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



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

Dimensions : Millimetres

**Electrical Specifications**

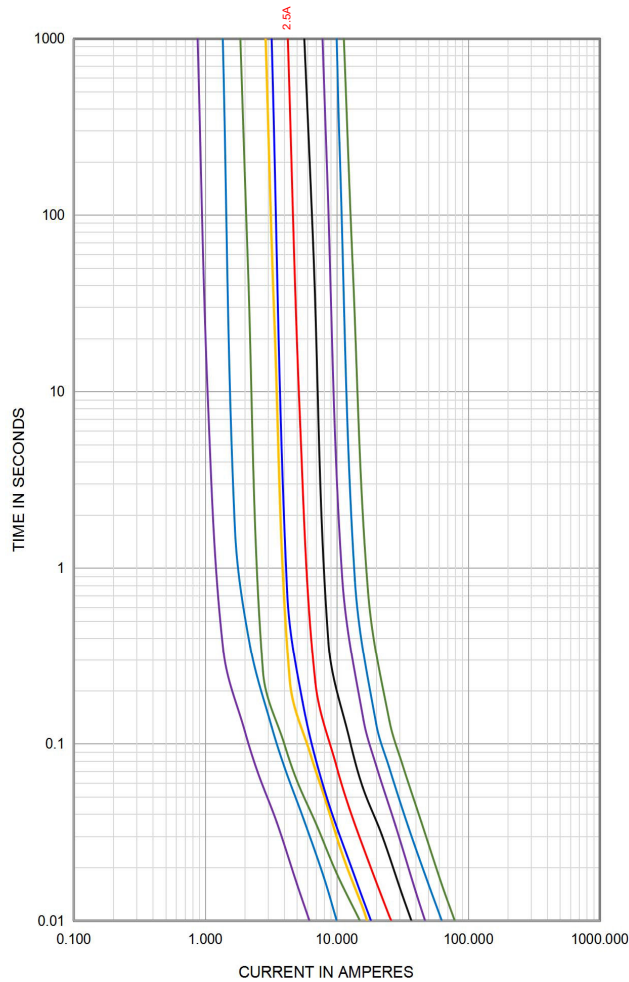
**Time vs Current Characteristics Table**

(measured with constant current power supply)

Time vs Current Characteristics: UL248-14					
Rated current	150%	210%	275%	400%	1000%
2.5A	>1h	<30min	10ms~3s	3ms~300ms	$\leq 20\text{ms}$

**Time-Current Characteristics**

Average Current Curve(I-T Curve)

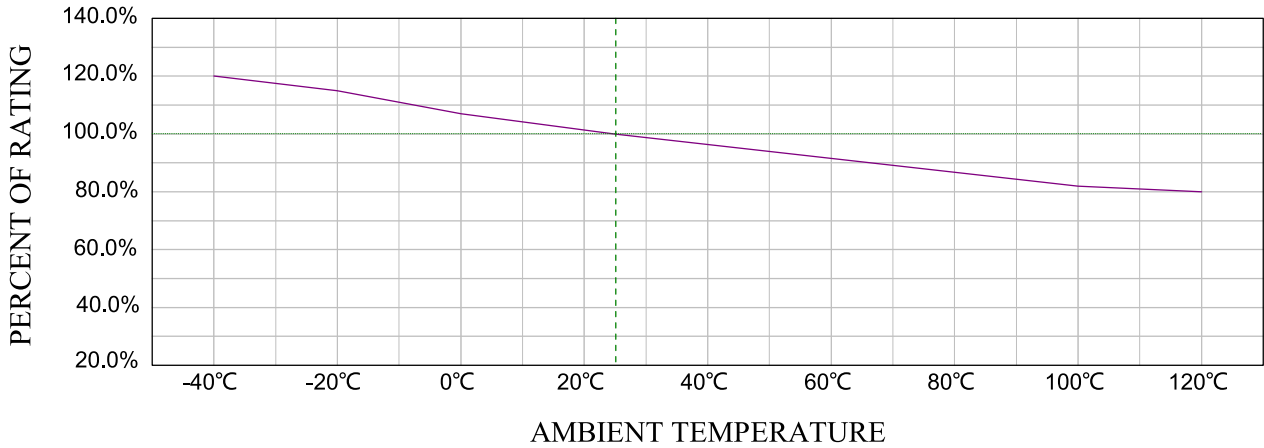


**Electrical characteristics**

Electrical Characteristics at 25°C											
Part Number	Rated Current	Max Voltage Drop(mV)	Max.Power Dissipation (mW)	Typical cold Resistance (mΩ)	Nominal Melting I²t(A²sec)	Breaking Capacity	Approvals				
							cURus	PSE	TUV	CCC	
MP007129	2.5A	200	1313	19.9	6.75	50A/125V AC 35A or 10In/250V AC	125V	250V	250V	250V	250V

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



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

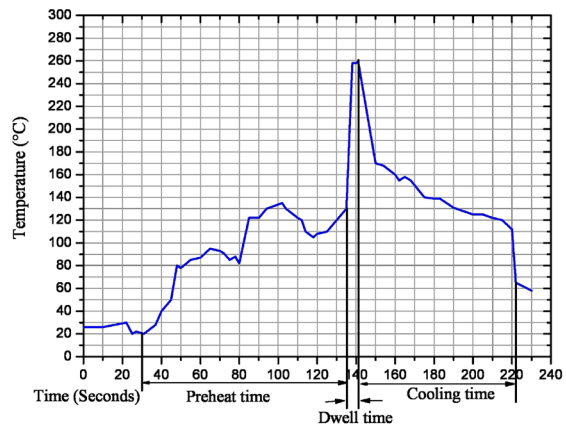
**Soldering Parameters**

260°C. ≤5 sec (Wave Soldering)

350°C. ≤3 sec (Hand Soldering)

Soldering Peak:

260°C - 10 sec (IEC 60068-20)



**Part Number Table**

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

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