

**RoHS
Compliant**



Description

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

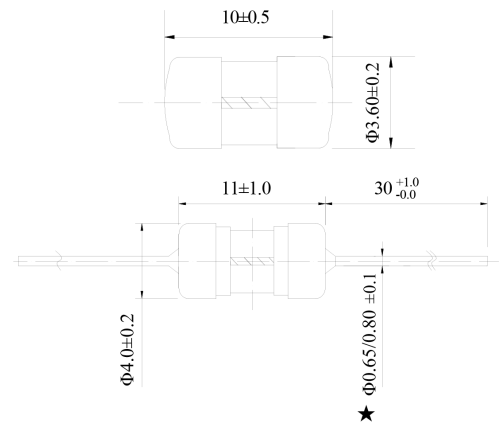
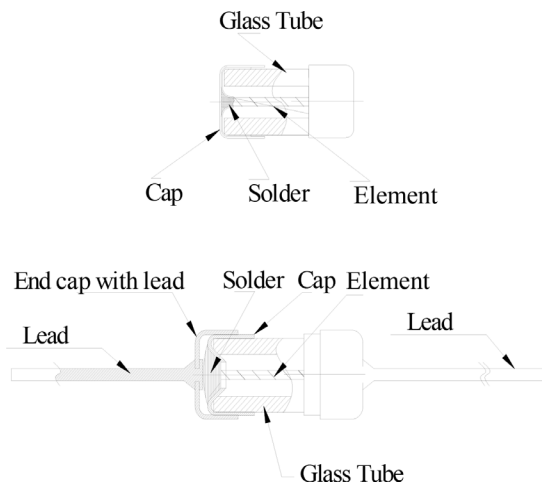


Features

- Subminiature fuse with fast-acting, low breaking capacity
- $\Phi 3.6\text{mm} \times 10\text{mm}$ physical dimensions
- Glass tube, encapsulated design with nickel - plated brass end caps
- Protection against harmful over-currents in primary and secondary applications.

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



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

Dimensions : Millimetres

Electrical Specifications

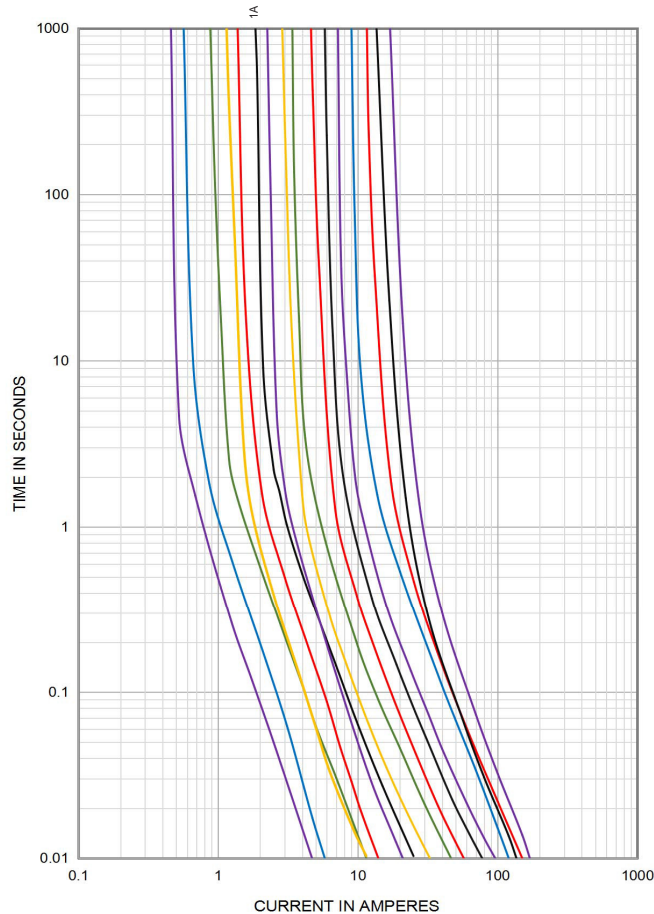
Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics: UL248-14					
Rated current	150%	210%	275%	400%	1000%
1A	>1h	<2min	400ms~10s	150ms~3s	20ms~150ms

Average Time Current (I-T) Curves

Average Current Curve(I-T Curve)

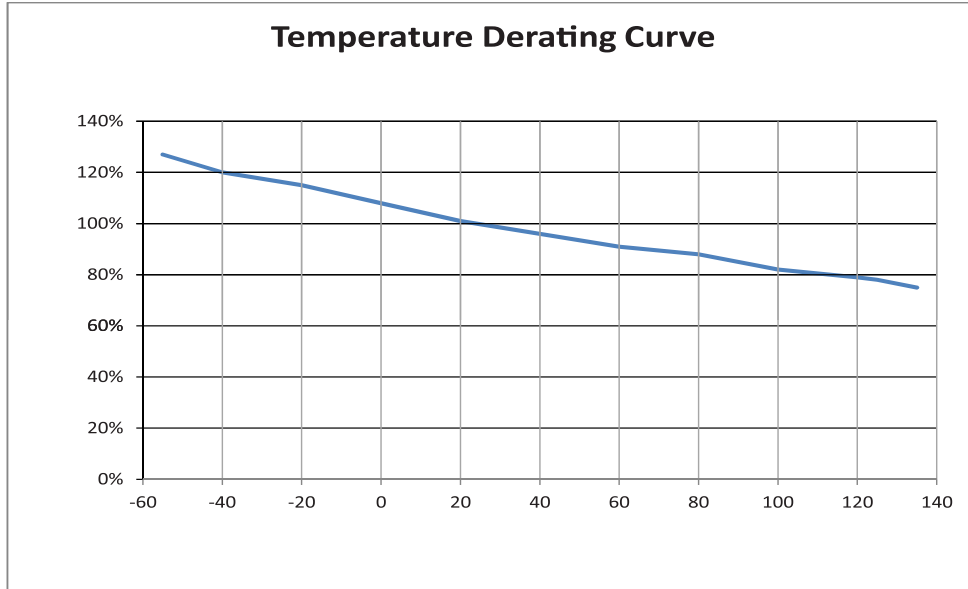


Electrical characteristics

Electrical Characteristics at 25°C													
Part Number	Rated Current	Rated Voltage	Max Voltage Drop(mV)	Max. Power Dissipation (mW)	Typical cold Resistance (mΩ)	Nominal Melting I ² t(A ² sec)	Breaking Capacity	Approvals					
								cURus		PSE	TUV	CQC	KC
MP007127	1A	250V AC	140	500	80	6.5	50A/125V AC 35A or 10In/250V AC	125V	250V	250V	250V	250V	250V
										●	○		

- 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 I²t should be within the standard range of 8ms ~ 10ms.

Temperature Derating Curve



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

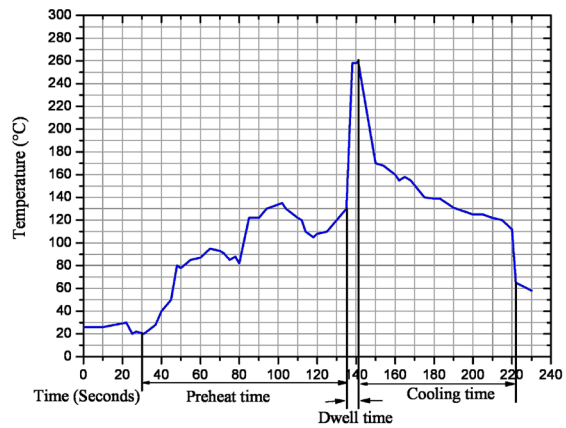
Soldering Parameters

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
Time-Lag Subminiature Cartridge Fuse, Axial Leaded, 1A, 250V AC, 3.6mm x 10mm	MP007127

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.