Time-Lag Subminiature Cartridge Fuse Axial Leaded

multicomp PRO

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 Φ3.6mm × 10mm 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
- Ø3.6mm × 10mm 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/IV

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 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

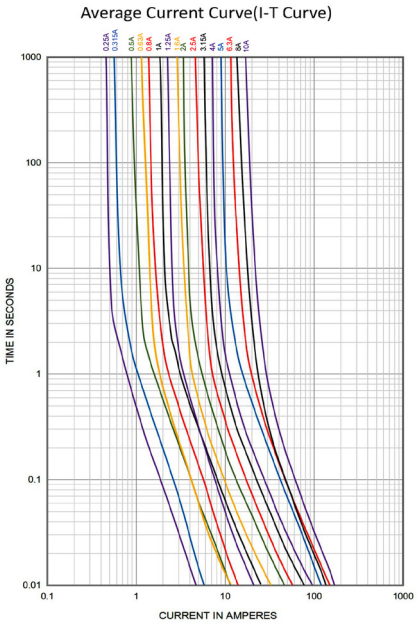
Electrical Specifications

Time vs Current Characteristics Table
(measured with constant current power supply)

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

Time vs Current Characteristics: UL248-14		
Rated current	**400%**	**1000%**
1A	150ms~3s	20ms~150ms

Average Time Current (I-T) Curves



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sg.element14.com/b/multicomp-pro

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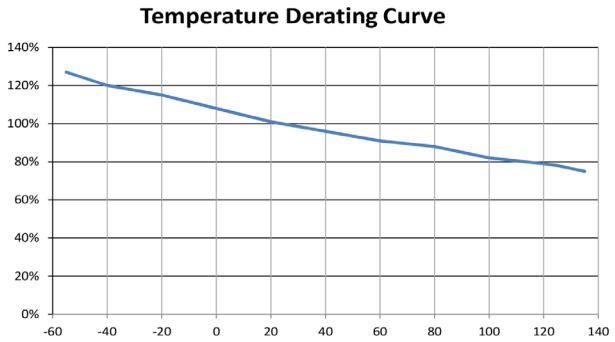
Electrical Characteristics at 25°C

Part Number	Amp Code	Rated Current	Rated Voltage	Max Voltage Drop (mV)	Max. Power Dissipation (mW)	Typical Cold Resistance (mΩ)	Nominal Melting I^2T (A^2s)	Breaking Capacity
MP007127	1100	1A	250V AC	140	500	80	6.5	50A/125V AC 35A or 10In/250V AC

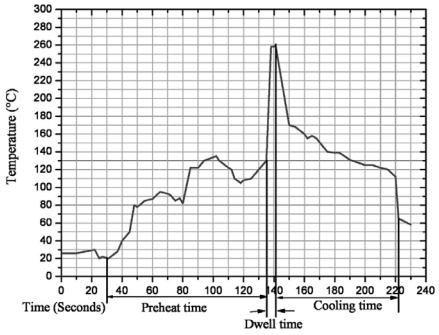
Note:
(1) Permissible continuous operating current is 100% at ambient temperature of 23°C (73.4°F)
(2) The current values used for calculating I^2T should be within the standard range of 8ms~10ms.

Temperature Derating Curve



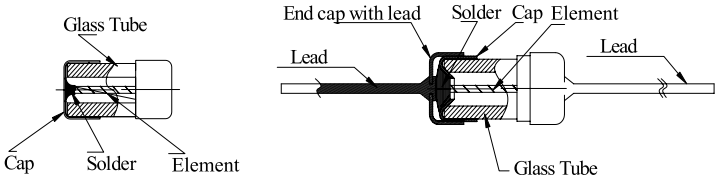
Calculation for ideal fuse selection = $\frac{\text{Operating Current (A)}}{\text{Rating (\% × 0.75)}}$

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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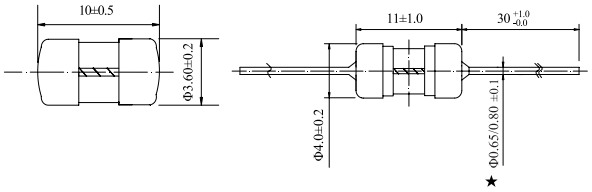
Axial Leaded

Diagram



★:
250mA～7A： Φ0.65mm
8A～10A： Φ0.80mm

Dimensions : Millimetres

Part Number Table

Description	Part Number
Time-Lag Subminiature Cartridge Fuse, Axial Leaded, 1A, 250V AC, 3.6mm×10mm	MP007127