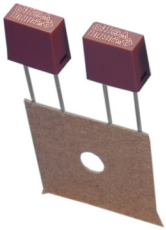


Time-Lag Subminiature Fuse Radial Leaded

multicomp PRO

**RoHS
Compliant**



Description

The product provides protection for printed circuit boards used in a large variety of applications that need fuses with time-delay, low breaking capacity. The sub-miniature device is constructed of a plastic cap and base with a tin plated copper lead wire. It offers excellent mounting characteristics and is 100% tested for cold resistance.

Applications

Its main applications are for consumer electronics, LED drivers, power supplies, battery chargers and controllers for industrial use.

Features

- Subminiature fuse with time delay, low breaking capacity
- Small, rectangular and leaded design minimizes board space and eliminates the need for additional mounting components
- Plastic cap / brown thermoplastic fuse body
- 0.6mm lead wires made of tin plated copper.
- Protection against harmful over-currents in primary and secondary applications
- Lead-free and Halogen-free
- Designed according to IEC 60127-3
- TUV compliance to EN 60127-7: 2016

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

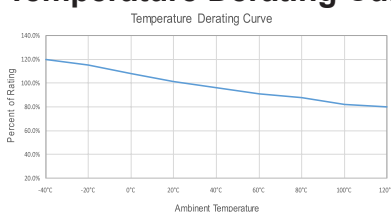
Electrical Characteristics

Part Number	Rated Current	Max. Voltage	Max. Voltage Drop (mV)	Max. Power Dissipation (mW)	Nominal Melting I ² t (A ² sec)	Breaking Capacity
MP001613	1A	400V AC	140	500	6.7	100A @ 125V AC 100A @ 250V AC 50A or 10In @ 300V AC 160A @ 125V/250V AC 100A @ 277V/300V/400V 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



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

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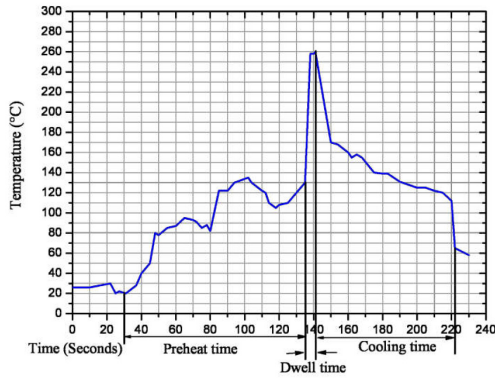
Time-Lag Subminiature Fuse Radial Leaded



Time vs Current Characteristics Table

Time vs Current Characteristics: UL-248-14					
Rated Current	150%	210%	275%	400%	1000%
1A	>1h	<2min	400ms-10s	150ms-3s	20ms-150ms

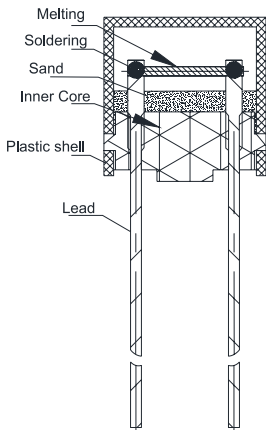
Soldering Parameters



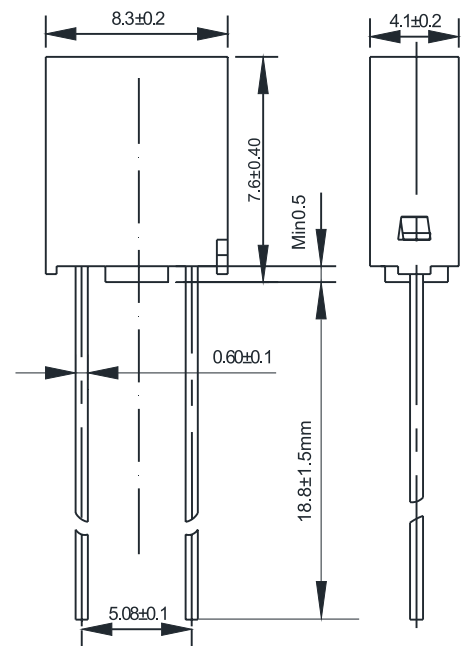
260°C = ≤5 sec (Wave Soldering)
 350°C = ≤3 sec (Hand Soldering)
 Soldering Peak:
 260°C = 10 sec (IEC 60068-20)

Construction and Mechanical Characteristics

Construction (cross section)



Diagram



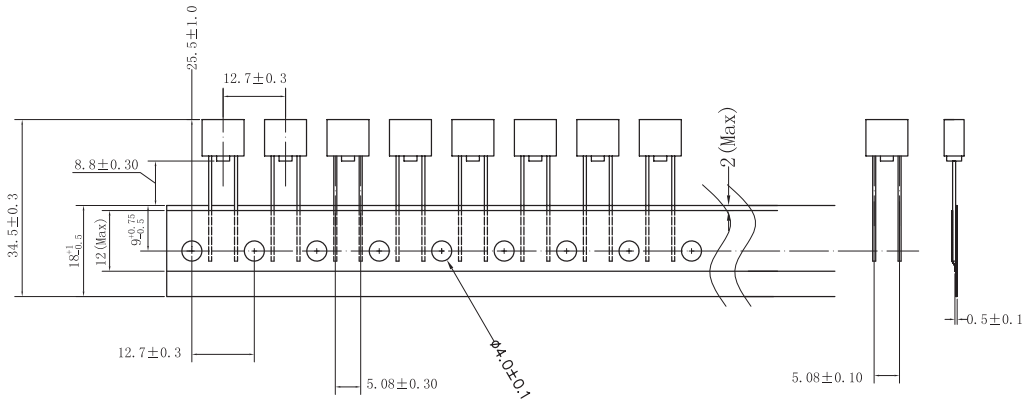
Dimensions : Millimetres



Time-Lag Subminiature Fuse Radial Leaded



Packing Information



Part Number Table

Description	Part Number
Subminiature Fuse, Time-Lag, 1A, 400V AC, Radial Leaded	MP001613

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