Fast-Acting Miniature Cartridge Fuses 6mm × 30mm

RoHS Compliant

Description

These fast-acting fuse with low breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This 6mm × 30mm device is constructed of a glass tube with electro-plated brass end caps. These fuses offers excellent quality and is 100% tested for cold resistance and precise length.

Features

- Miniature fuse with quick-acting, high interrupting ratings and voltage ratings
- Ø6.35mm × 31.8mm 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 UL 248-14 J60127 GB/T9364.7

Specifications

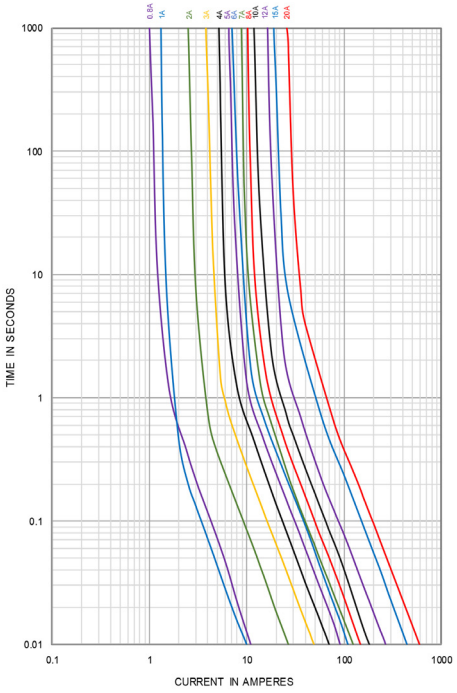
Operating Temperature : -55°C to 125°C
Storage Conditions : +10°C to +60°C
Relative humidity : ≤ 75% yearly average without dew, maximum 30 days at 95%
Vibration Resistance : 24 cycles at 15 min. each (60068-6)
10-60Hz at 0.75mm amplitude
60-2000Hz at 10g acceleration

Electrical Specifications

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

Time vs Current Characteristics: UL248-14			
Rated current	**100%**	**135%**	**200%**
1A to 4A	>4h	<1h	<10s

Average Time Current (I-T) Curves



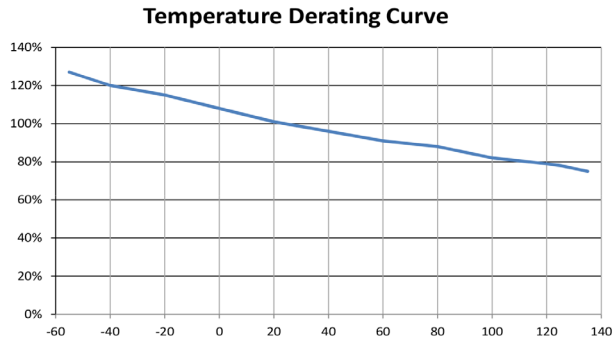
Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

Electrical characteristics at 25°C

Part Number	Amp	Rated Current	Max. Voltage	Nominal Melting I^2t(A^2sec)	Typical Cold Resistance (mΩ)	Breaking Capacity
MP007110	1100	1A	250V AC	1	150	10KA@125V AC 100A@250V AC
MP007111	1300	3A		24	36	
MP007112	1400	4A		49	27.55	10KA@125V AC 200A@250V AC

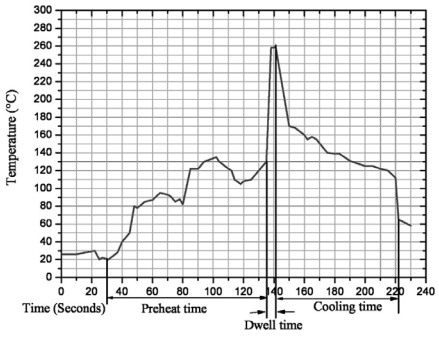
Note: 1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)
2. The cURus and cULus certification by 125V and 250V; the CQC certification by 250V; the PSE certification by 125V
3. The current values used for calculating I^2t should be within the standard range of 8ms ~ 10ms.

Temperature Derating Curve



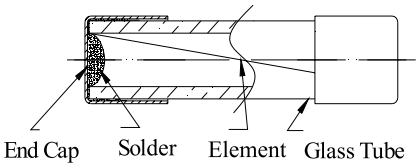
Calculation for ideal fuse selection = $\frac{\text{Operating Current (A)}}{\text{Rating (\% × 0.75)}}$

Soldering Parameters

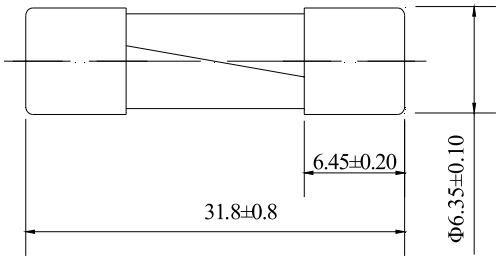


260°C ≤5 sec (Wave Soldering)
350°C ≤3 sec (Hand Soldering)
Soldering Peak:
260°C - 10 sec (IEC 60068-20)

Mechanical Specifications



Diagram



Part Number Table

Description	Part Number
Fast-Acting Miniature Cartridge Fuse, 1A, 250V AC, 6mm × 30mm	MP007110
Fast-Acting Miniature Cartridge Fuse, 3A, 250V AC, 6mm × 30mm	MP007111
Fast-Acting Miniature Cartridge Fuse, 4A, 250V AC, 6mm × 30mm	MP007112

Dimensions : Millimetres