Time-Lag Brick SMD Fuse
2611

multicomp PRO

RoHS Compliant

Description

The brick fuse for the small size and good electrical performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our brick fuses more heat and shock tolerant than typical brick fuses.

Applications

Time-lag type brick fuse for over-current protection.

Features

- Rapid interruption of excessive current
- Compatible with reflow and wave soldering
- Ceramic body and silver plated copper terminal
- Excellent environmental integrity
- Lead-free and Halogen-free
- Designed to UL 248-14

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

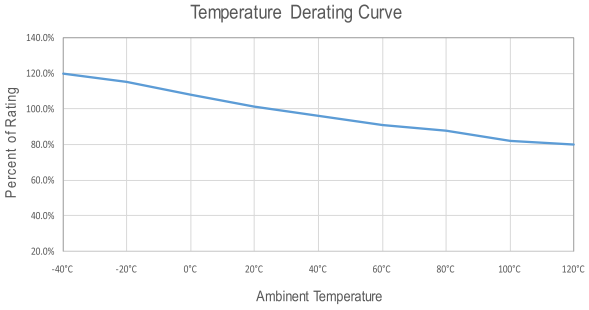
Part Number	Rated Current	Max. Voltage	Typical Voltage Drop (mV)	Breaking Capacity	Typical Melting I²t (A²sec)	Typical Cold Resistance (Ω)
MP001614	1A	250V AC 125V AC	300	100A@250V AC 100A@125V AC 50A@125V DC	0.87	0.256

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 10In.

Temperature Derating Curve



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

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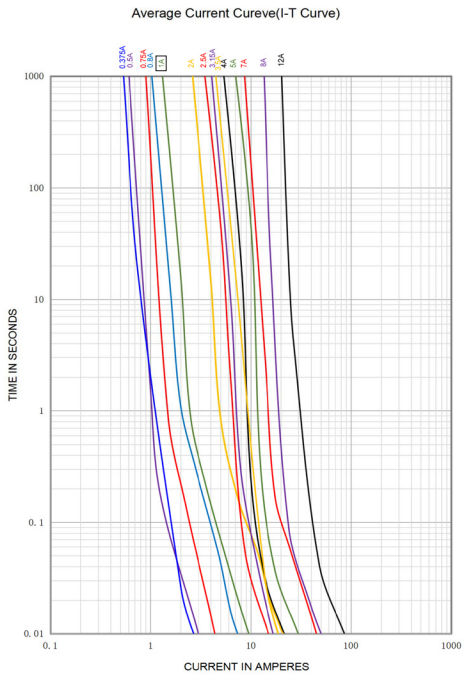
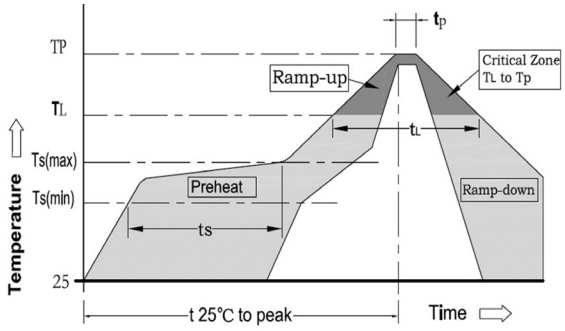
Time vs Current Characteristics Table

Average Time Current (I-T) Curves



Time vs Current Characteristics: UL-248-14		
Rated Current	100%	200%
1A	>4h	<120s

Soldering Parameters



Profile Feature		Pb-Free Assembly
Average Ramp-UP Rate(Tsmax to Tp)		3°C/s Max.
Preheat	Temperature Min (Ts min)	150°C
	Temperature Max (Ts max)	200°C
	Time (Tsmin to Ts max)	60sec to 120sec
Peak Temperature (TP)		260°C
Time within 5°C of actual Peak Temperature(TP)		5sec
Melting tin time (TL)		20sec to 40sec
Ramp-Down Rate		6°C/s Max.
Time 25°C to Peak Temperature(TP)		8 minutes Max.

1. Infrared Reflow:
   Temperature: 260°C
   Time: 5sec Max.
2. Wave Soldering:
   Reservoir Temperature: 260°C
   Time in Reservoir: 10sec Max.
3. Hand Soldering
   Temperature: 300°C
   Time: 3 sec. Max.
   Soldering iron avoid touch Brass Cap.

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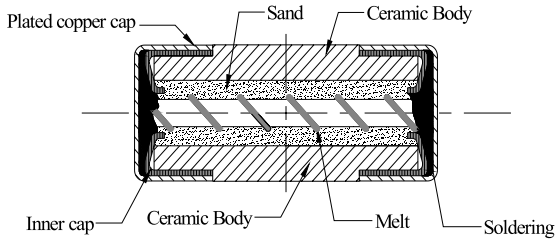
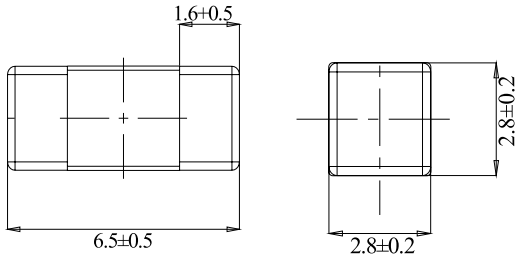
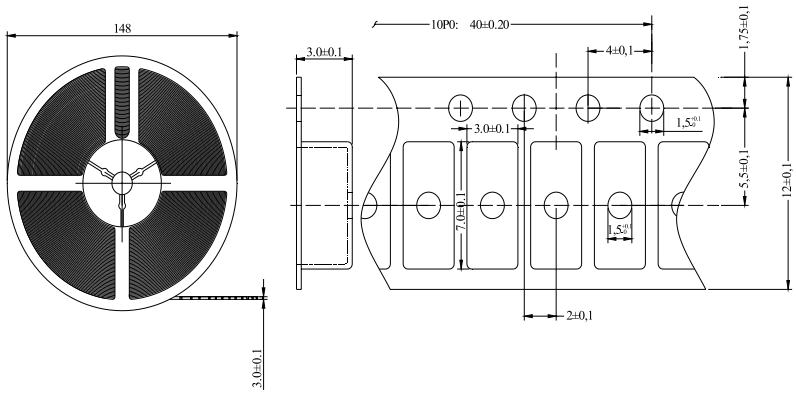
Mechanical Specifications



Diagram



Packing Information



Dimensions : Millimetres

Part Number Table

Description	Part Number
Brick SMD Fuse, Time-Lag, 1A, 250V AC, 2611	MP001614