

Fast-Acting Brick SMD Fuse 2611

multicomp PRO

**RoHS
Compliant**



Description

The SMD 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 SMD fuses more heat and shock tolerant than typical brick fuses.

Features

- Rapid interruption of excessive current
- Ceramic body and silver plated copper terminal
- Excellent environmental integrity
- One time positive disconnect
- Lead-free and Halogen-free
- Designed to UL 248-14/ IEC 60068-2-58/ MIL-STD-202

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

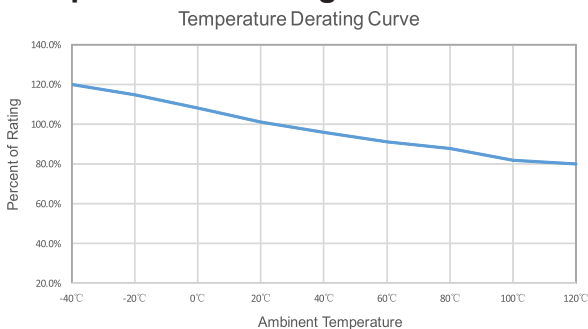
Electrical Characteristics

Part Number	Rated Current	Max. Voltage	Typical Voltage Drop (mV)	Breaking Capacity	Nominal Melting I ² t (A ² sec)	Typical Cold Resistance (Ω)
MP001615	1A	250V AC 400V DC	300	150A@125V AC/250V AC 150A@125V DC/250V DC 400V DC 50A, 350V DC/400V DC 100A	0.47	147.8

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 10ms.

Temperature Derating Curve



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

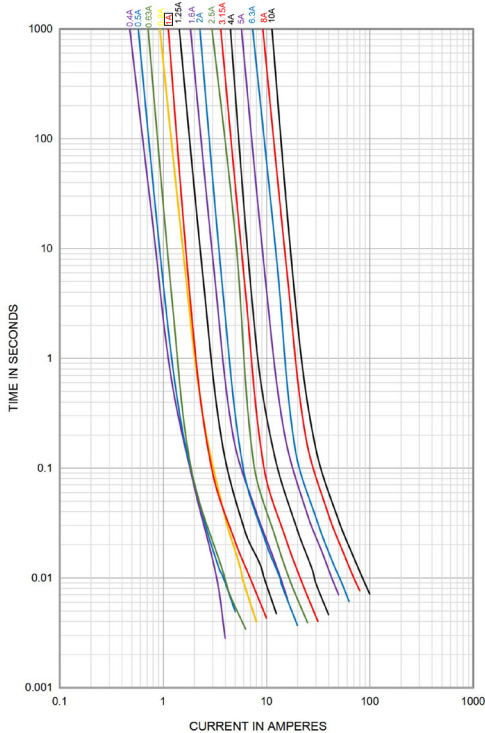
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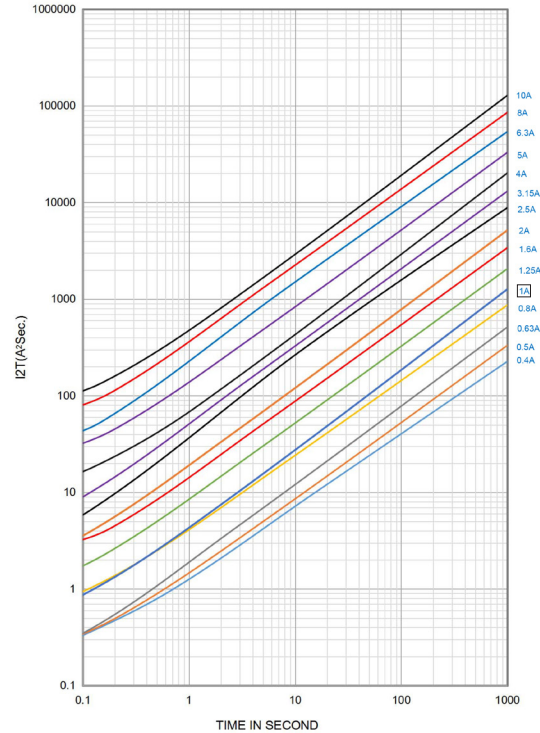
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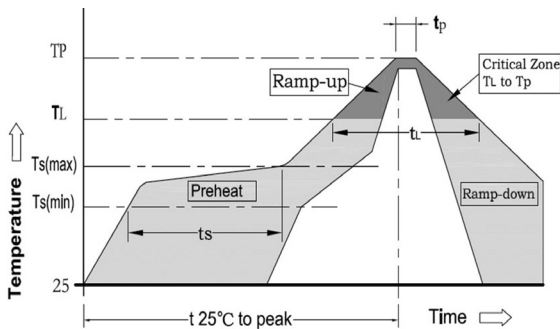
Average Time Current (I-T) Curves



I²T



Soldering Parameters



Profile Feature		Pb-Free Assembly
Average Ramp-UP Rate(T_{smax} to T_p)		3°C/s Max.
Preheat	Temperature Min (T_s min)	150°C
	Temperature Max (T_s max)	200°C
	Time (T_{smin} to T_s max)	60sec to 120sec
Peak Temperature (T_P)		260°C
Time within 5°C of actual Peak Temperature(T_P)		5sec
Melting tin time (T_L)		20sec to 40sec
Ramp-Down Rate		6°C/s Max.
Time 25°C to Peak Temperature(T_P)		8 minutes Max.

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

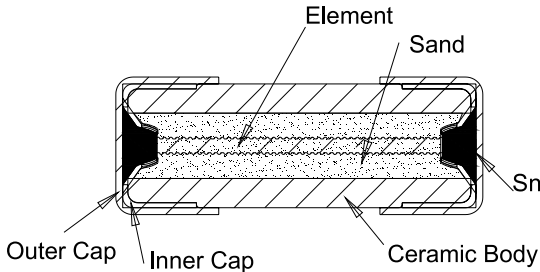
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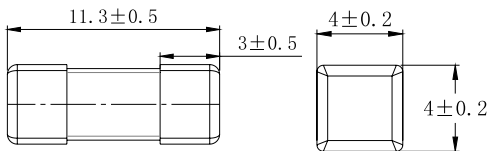
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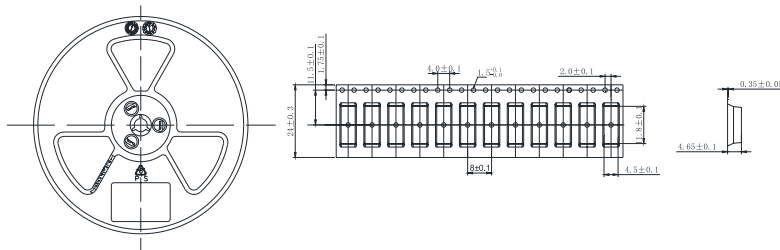
Mechanical Specifications



Diagram



Packing Information



Dimensions : Millimetres

Part Number Table

Description	Part Number
Brick SMD Fuse, Time-Lag, 1A, 250V AC/400V DC, 2611	MP001615

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