

Fast Acting High Current Brick Fuse

A103001 Series



Description

- Fast Acting High current brick fuse
- Surface mount design to save space
- Ceramic Square body with end cap design
- Designed to UL248-1/14

Electrical Characteristics

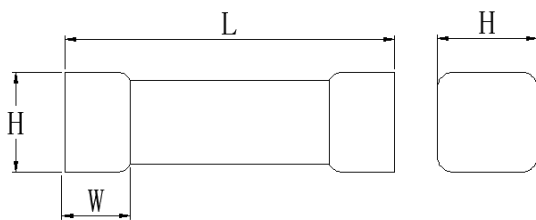
Amp Rate	1.0In	2.0 In
40A-60A	4 hour min.	<60s

Specifications

Specification						
Part No.	Rated Voltage	Rated Current	Breaking Capacity ¹	Typ. Cold Resistance	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t
	(DC)	(A)		mΩ		(A ² Sec) ²
A103001.40	63V	40	800A	1.20	155	1400
A103001.50		50		0.97	120	2200
A103001.60		60		0.85	95	4000

1. DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)
2. Typical Pre-arcing I²t are measured at 10In Current, DC battery bank, but not exceeding the interrupting rating, time constant of calibrated circuit less than 50 microseconds)

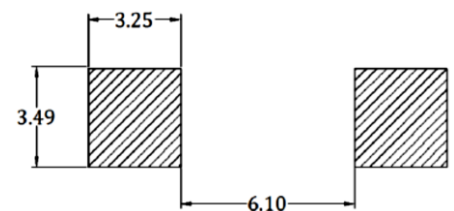
Dimension



Rating	L	W	H
40A-60A	10.0±0.30	1.7±0.10	3.15±0.10

Recommended Pad Layout

1. Recommend trace thickness is 3oz; the minimum trace width is 22mm;
2. Recommend solder paste thickness is 0.15mm;

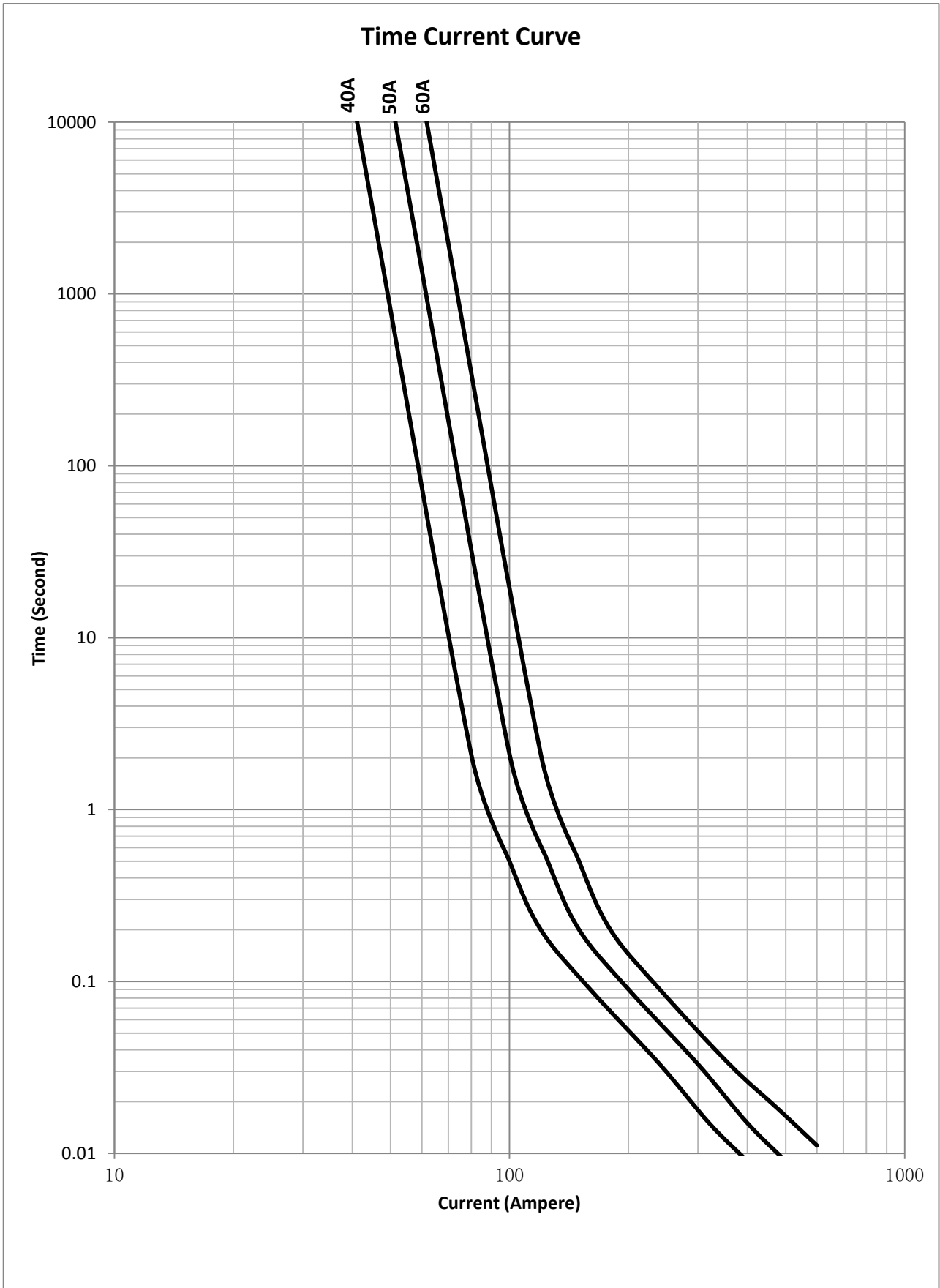


Soldering Characteristics

Reflow Soldering

- Temperature: 260° C
- Time: 30 Seconds Maximum

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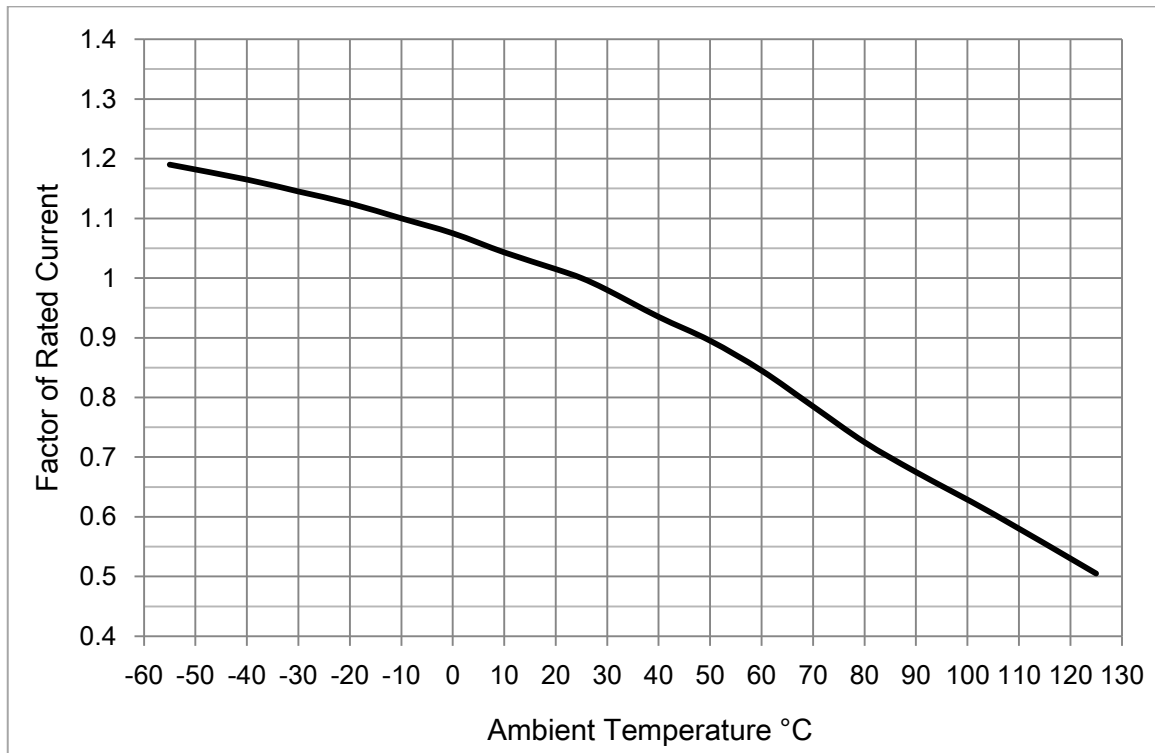


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Temperature derating curve

- Normal Operating Temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Operating Temperature: -55°C to 125°C with proper correction factor applied.
- Chart of correction factor



Package and Minimum order QTY

60A: 1500pcs fuses in tape (width 24mm) and reel (dia. 13inch)