

# Fast Acting High Current Brick Fuse PB06 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	3.5 In
80A-100A	4 hour min.	<10s

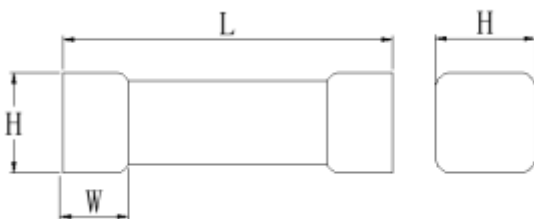
## Specifications

### Specification

Part No.	Rated Voltage		Rated Current	Breaking Capacity		Typ. Cold Resistance	Typical Voltage Drop (mV)	Typical Pre-Arcing I <sup>2</sup> t
	(V)			AC <sup>1</sup>	DC <sup>2</sup>			
	AC	DC	(A)			mΩ	(A <sup>2</sup> Sec) <sup>3</sup>	
PB06080	125V	72V	80	500A	1000A	0.44	65	1700
PB06100		63V	100					
		32V				0.29	55	

1. AC Interrupting Rating (Measured at designated voltage, 100% power factor random closing)
2. DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)
3. Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current, DC battery bank, but not exceeding the interrupting rating, time constant of calibrated circuit less than 50 microseconds)

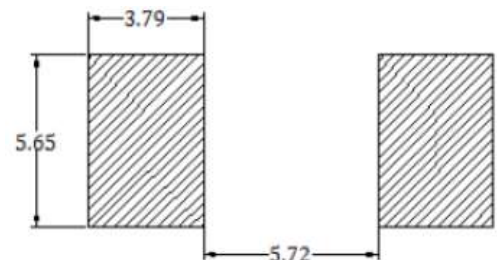
## Dimension



Rating	L	W	H
80A-100A	12.30±0.40	2.70±0.20	4.50±0.20

## Recommended Pad Layout

1. Recommend trace thickness is 6oz; the minimum trace width is 33mm;
2. Recommend solder thickness is 0.15mm;



## Soldering Characteristics

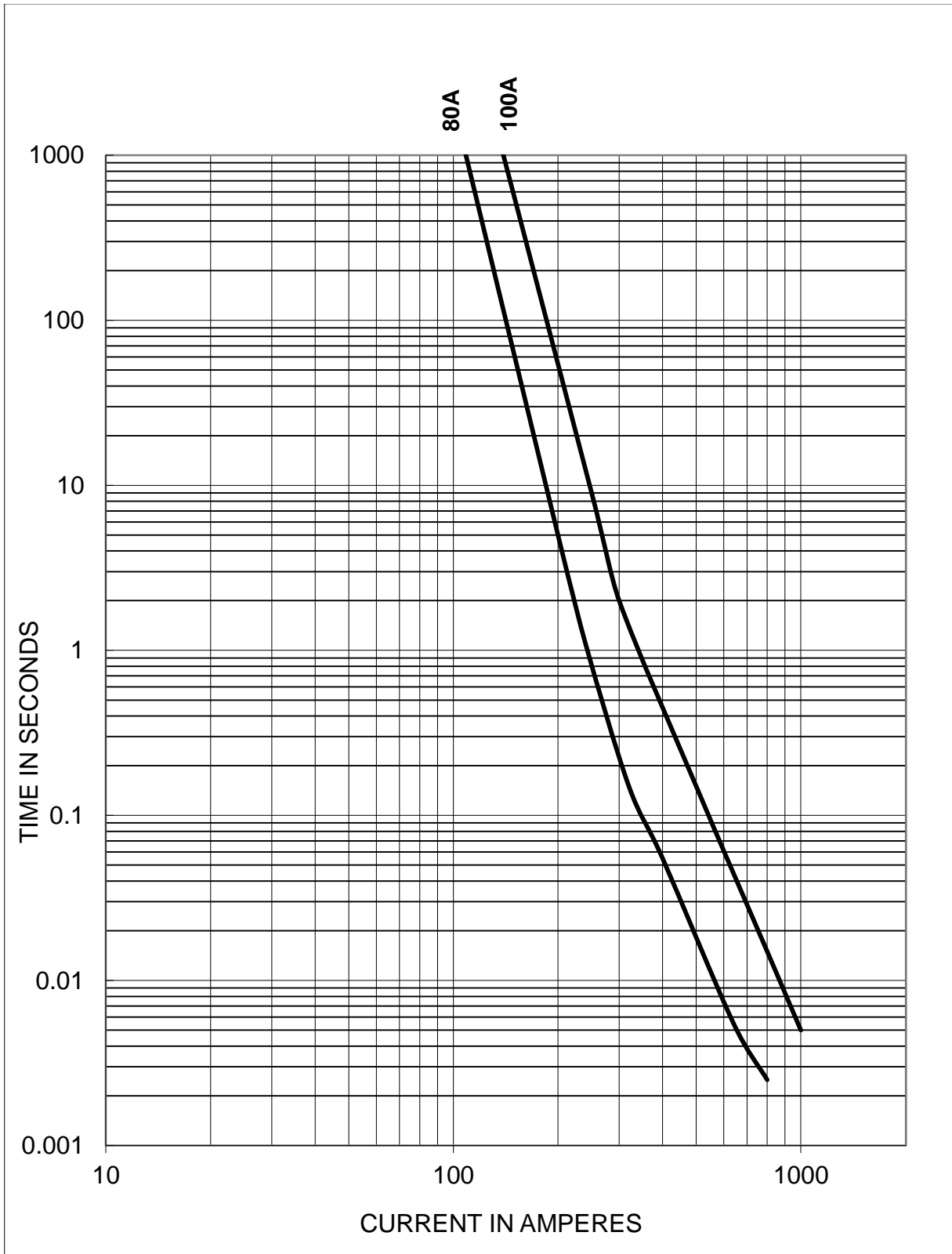
### Reflow Soldering

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

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## Time-Current Curves

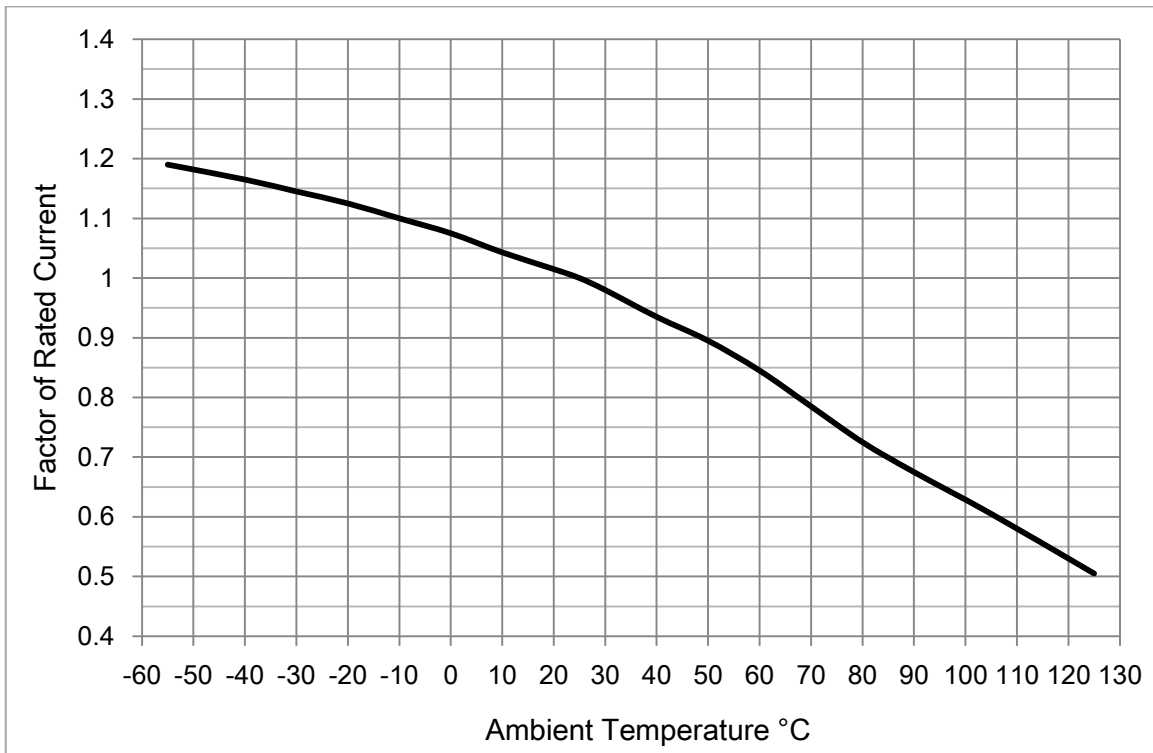


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## Temperature derating curve

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



## Package and Minimum order QTY

80A-100A: 1000pcs fuses in tape (width 24mm) and reel (dia. 13inch)