

# Fast Acting High Current Brick Fuse Ampere Rating 20-100A

## Description

- Fast Acting High current brick fuse
- Surface mount design to save space
- Ceramic Square body with end cap
- Designed to UL248-1
- Fully compatible with lead-free solder and high temperature profile associated with lead-free assembly



## Applications

- Power battery protection
- Test equipment
- Power supplies
- Game systems
- Industrial equipment
- Telecom system

### Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
20~100A	1.0 In	4 hour min.
	2.0 In	<60s

## Specifications



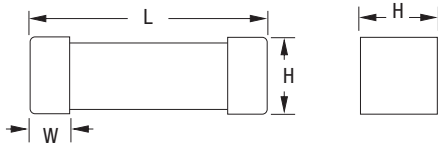
Part No.	Dimensions (mm)	Rated Current (A)	Breaking Capacity	Typ. Cold Resistance (mΩ)	Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> Sec)
1240FH-20A	10 x 3.15	20	250Vac @ 150A	2.35	23
1240FH-25A	10 x 3.15	25	125Vac @ 150A	2.12	45
1240FH-30A	10 x 3.15	30	80Vdc @ 800A	1.51	98
1240FH-40A	12 x 4.5	40		1.12	432
1240FH-50A	12 x 4.5	50		0.97	596
1240FH-60A	12 x 4.5	60	125Vac @ 500A 72Vdc @ 1000A	0.66	873
1240FH-80A	12 x 4.5	80		0.48	1712
1240FH-100A	12 x 4.5	100		0.35	4166

- AC Interrupting Rating (Measured at designated voltage, 100% power factor random closing)
- DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)
- 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)

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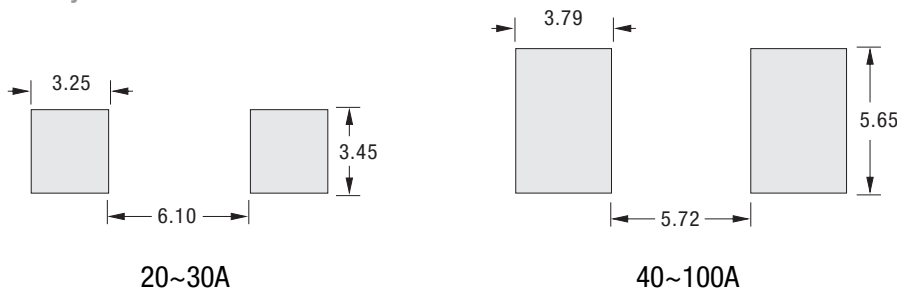
## Dimension

Unit: mm



Amp Rating	L	W	H
20~30A	10.0±0.30	1.7±0.10	3.15±0.10
40~100A	12.30±0.40	2.70±0.20	4.50±0.20

## Pad layout

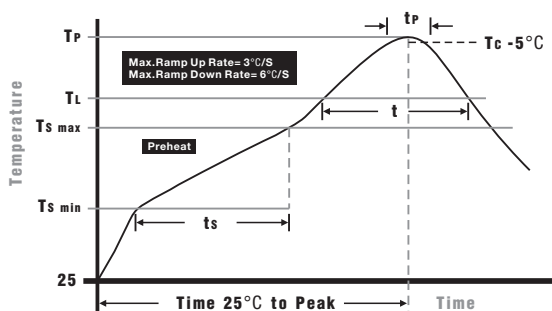


20A-30A: Recommend trace thickness is 3oz, the minimum trace width is 10mm  
 40A-50A: Recommend trace thickness is 3oz, the minimum trace width is 15mm  
 60A-70A: Recommend trace thickness is 3oz, the minimum trace width is 22mm  
 80A-100A: Recommend trace thickness is 6oz, the minimum trace width is 33mm

## Packaging

- 20A to 30A Quantity: 1,500pcs
- 40A to 100A Quantity: 1,000pcs
- 24mm wide tape on 330mm (13 inch) diameter reel -specification EIA Standard 481.

## Soldering Parameters



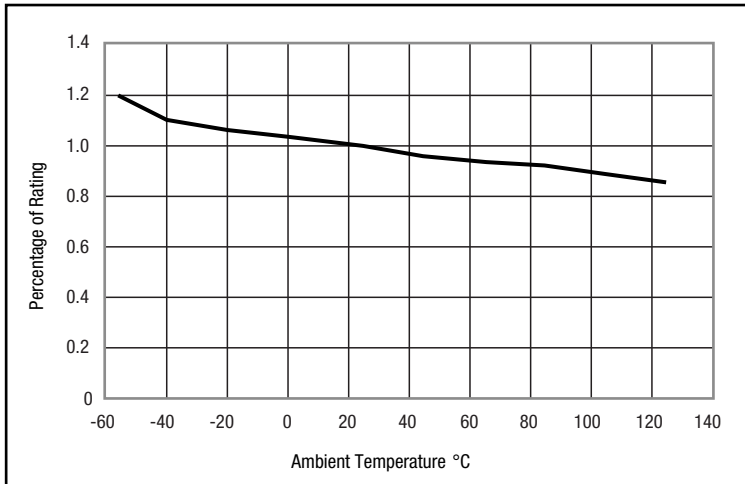
Wave Soldering: 260°C, 10 seconds max.  
 Infrared Reflow: 260°C, 30 seconds max.

## IR Reflow Profile

<b>Preheat Heat</b>	
Temperature min (T <sub>min</sub> )	150°C
Temperature max (T <sub>max</sub> )	200°C
Time (T <sub>min</sub> to T <sub>max</sub> ) (t <sub>s</sub> )	60 - 180 seconds
Average ramp-up rate (T <sub>max</sub> to T <sub>p</sub> )	5°C/second max.
<b>Liquidous temperature (T<sub>L</sub>)</b>	
Time at liquidous (t <sub>l</sub> )	60 - 150 seconds
<b>Peak temperature (T<sub>p</sub>)</b>	
Peak temperature (T <sub>p</sub> )	260+0/-5°C
<b>Time within 5°C of actual peak Temperature (t<sub>p</sub>)</b>	
Time within 5°C of actual peak Temperature (t <sub>p</sub> )	10 - 30 seconds
Average ramp-down rate (T <sub>p</sub> to T <sub>max</sub> )	5°C/second max.
<b>Time 25°C to peak temperature</b>	
Time 25°C to peak temperature	8 minutes max.

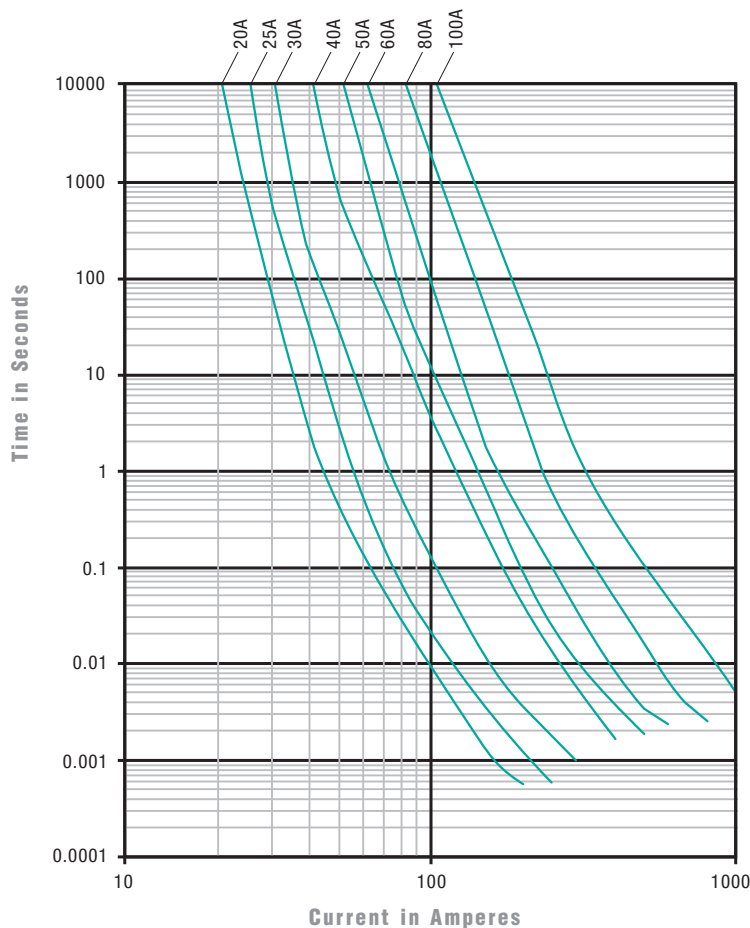
# Fast Acting High Current Brick Fuse Ampere Rating 20-100A

## Temperature Re-rating Curve



- Normal Operating Temperature: 25°C ± 2°C
- Operating Temperature: -55°C to 125°C with proper correction factor applied.
- Chart of correction factor.

## Time-Current Curves



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