

Fast Acting High Current Brick Fuse Ampere Rating 40-60A

Description

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



Applications

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

Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
40~60A	1.0 In	4 hour min.
	2.0 In	<60s

Specifications



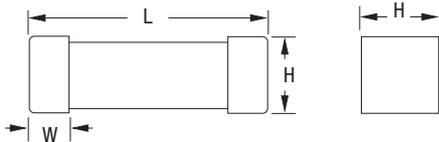
Part No.	Dimensions (mm)	Rated Current (A)	Breaking Capacity	Typ. Cold Resistance (mΩ)	Pre-Arcing I ² t (A ² Sec)
1032FH-40A	10 x 3.15	40		1.20	1400
1032FH-50A	10 x 3.15	50	63Vdc @ 800A	0.97	2200
1032FH-60A	10 x 3.15	60		0.85	4000

- DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)
- 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)

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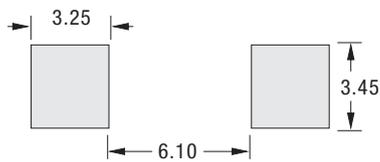
Dimension

Unit: mm



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

Pad layout



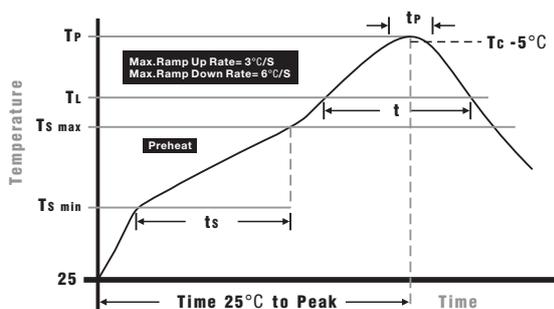
40~60A

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

Packaging

- 40A to 60A Quantity: 1,500pcs
- 24mm wide tape on 330mm (13 inch) diameter reel -specification EIA Standard 481.

Soldering Parameters



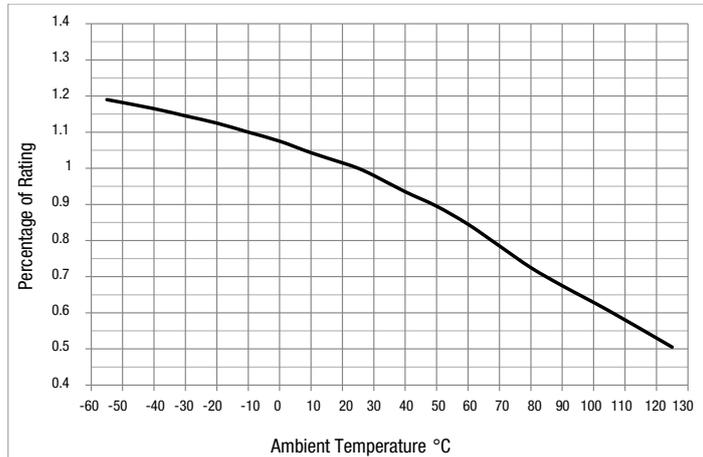
Wave Soldering: 260°C, 10 seconds max.
Infrared Reflow: 260°C, 30 seconds max.

IR Reflow Profile

Preheat Heat	
Temperature min (T _{smin})	150°C
Temperature max (T _{smax})	200°C
Time (T _{smin} to T _{smax}) (t _s)	60 - 180 seconds
Average ramp-up rate (T_{smax} to T_p)	5°C/second max.
Liquidous temperature (T_L)	217°C
Time at liquidous (t _L)	60 - 150 seconds
Peak temperature (T_p)	260+0/-5°C
Time within 5°C of actual peak Temperature (t_p)	10 - 30 seconds
Average ramp-down rate (T_p to T_{smax})	5°C/second max.
Time 25°C to peak temperature	8 minutes max.

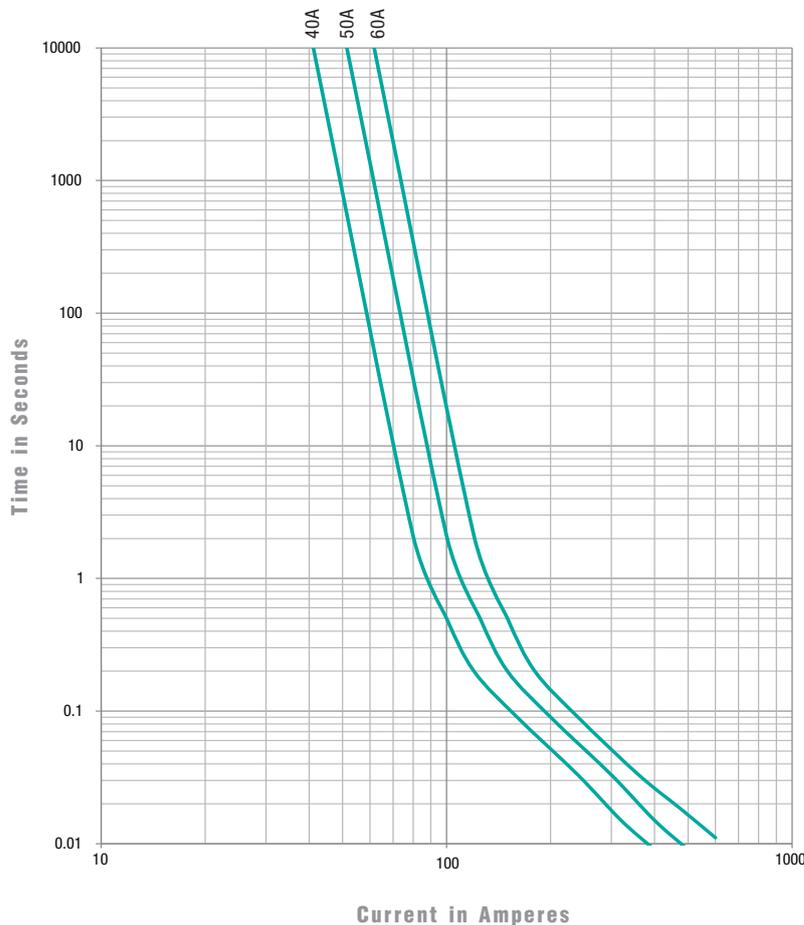
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Temperature Re-rating Curve



- 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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