

Fast Acting High Current Brick Fuse PB06 Series





Description

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

Electrical Characteristics

Amp Rate	1.0ln	2.5ln
20A-30A	4 hour min.	<10s



Specifications

Specification								
Part No.		Voltage	Rated Current	Breaking Capacity		Typ. Cold Resistance	Typical Voltage Drop	Typical Pre- Arcing I ² t
	AC	DC	Α	AC ¹	DC ²	mΩ	(mV)	(A ² Sec) ³
PB06020A	250V	/ 100V ⁴	20	150A	300A@100Vdc	2.9	105	20
PB06025A	125V 80V 72V 63V	25	150A	800A@80Vdc 800A@72Vdc 800A@63Vdc	2.25	125	35	
PB06030A	N/A	32V	30	N/A	0004@00/4-	1.5	100	90
PB06030A S	N/A	80V 72V 63V 32V	30	N/A	800A@80Vdc 800A@72Vdc 800A@63Vdc 800A@32Vdc	1.35	90	180

- 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 I²t are measured at 10In Current, DC battery bank, but not exceeding the interrupting rating, time constant of calibrated circuit less than 50 microseconds)
- 4. Internal qualification for 20A-30A @ 100Vdc, UL Approval is pending

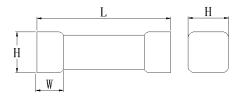


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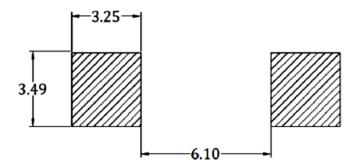


Dimension



Rating	L	W	Н
20A-30A	10.0±0.50	1.7±0.20	3.15±0.20

Recommended Pad Layout



Recommend trace thickness is 3oz; the minimum trace width is 10mm;

Recommend stencil thickness is 0.15mm;

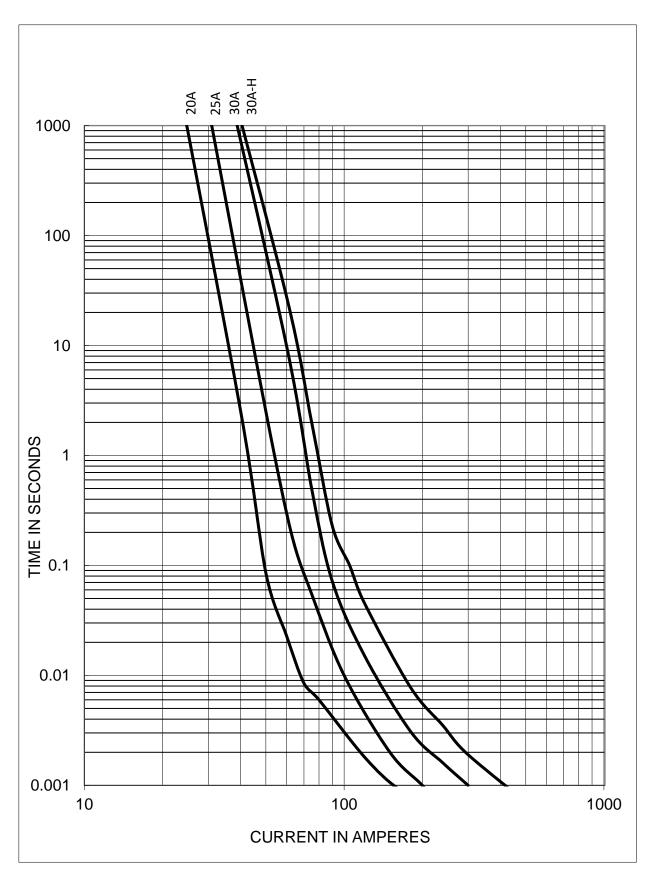


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Time-Current Curves





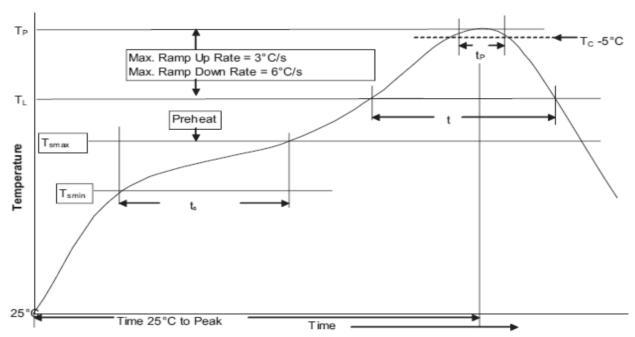
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Infrared Reflow

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



Profile Feature		Lead(Pb) free solder	
Preheat and soak	Temperature min.(T _{smin})	150°C	
	• Temperature max. (T _{smax})	200°C	
	 Time (T_{smin} to T_{smax}) (ts) 	60 - 120 Seconds	
Average ramp up rate T _{smax} to	3℃ / Second Max.		
Liquidous temperature (T _L)	217℃		
Time at liquidous (t∟)		60 - 150 Seconds	
Peak package body temperatu	260°C		
Time (t _P) within 5°C of the specified classification temperature (T _C)		30 Seconds	
Average ramp-down rate (T _P to T _{smax})		6°C / Second Max.	
Time (25°C to Peak Temperatu	8 Minutes Max.		

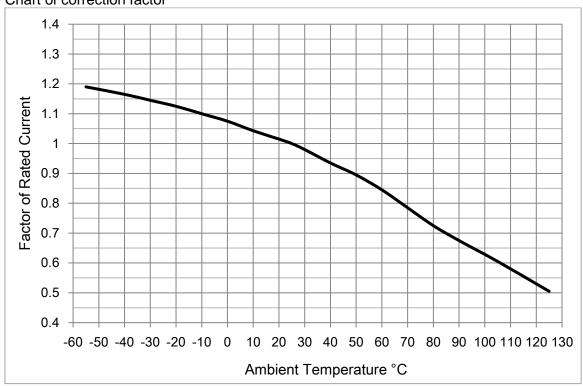


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Temperature derating curve

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



Package and Minimum order QTY

20A-30A: 1500pcs fuses in tape (width 24mm) and reel (dia. 13inch);