

PB04 Time Delay SMD 125VAC/DC Fuses

PB04 Series



Features:

- Rapid interruption of excessive current
- Compatible with reflow
- Ceramic body and silver-plated copper terminal
- Excellent environmental integrity
- One time positive disconnect
- RoHS compliant
- Designed to UL 248-14



Electrical Characteristics		
Rated Current	1.0In	2.0In
500mA~7A	4 hour Minimum	120s Maximum

Electrical Characteristics							
Amp Code	Max. Voltage		Rated Current	Typical Cold Resistance	Typical Voltage Drop	Breaking Capacity	Typical Melting
Unit	AC	DC	A	(ohms)	(mV)	A	I ² t (A ² sec)
PB04.0.25	125V	125V	0.25	0.639	400	50	0.06
PB04.0.315			0.315	0.500	400		0.12
PB04.0.4			0.4	0.415	300		0.27
PB04.0.5			0.5	0.285	200		0.81
PB04.0.63			0.63	0.195	200		0.85
PB04.0.8			0.8	0.135	200		2.25
PB04.1			1.0	0.098	200		3.24
PB04.1.25			1.25	0.056	180		5.76
PB04.1.6			1.6	0.043	180		9.00
PB04.2			2.0	0.039	180		13.00
PB04.2.5			2.5	0.035	180		20.25
PB04.3			3.0	0.0296	130		17.64
PB04.3.15			3.15	0.022	100		23.29
PB04.4			4.0	0.0157	100		64.0
PB04.5			5.0	0.011	100		49.0
PB04.6.3			6.3	0.00861	100		79.6
PB04.7			7.0	0.00913	100		91.5

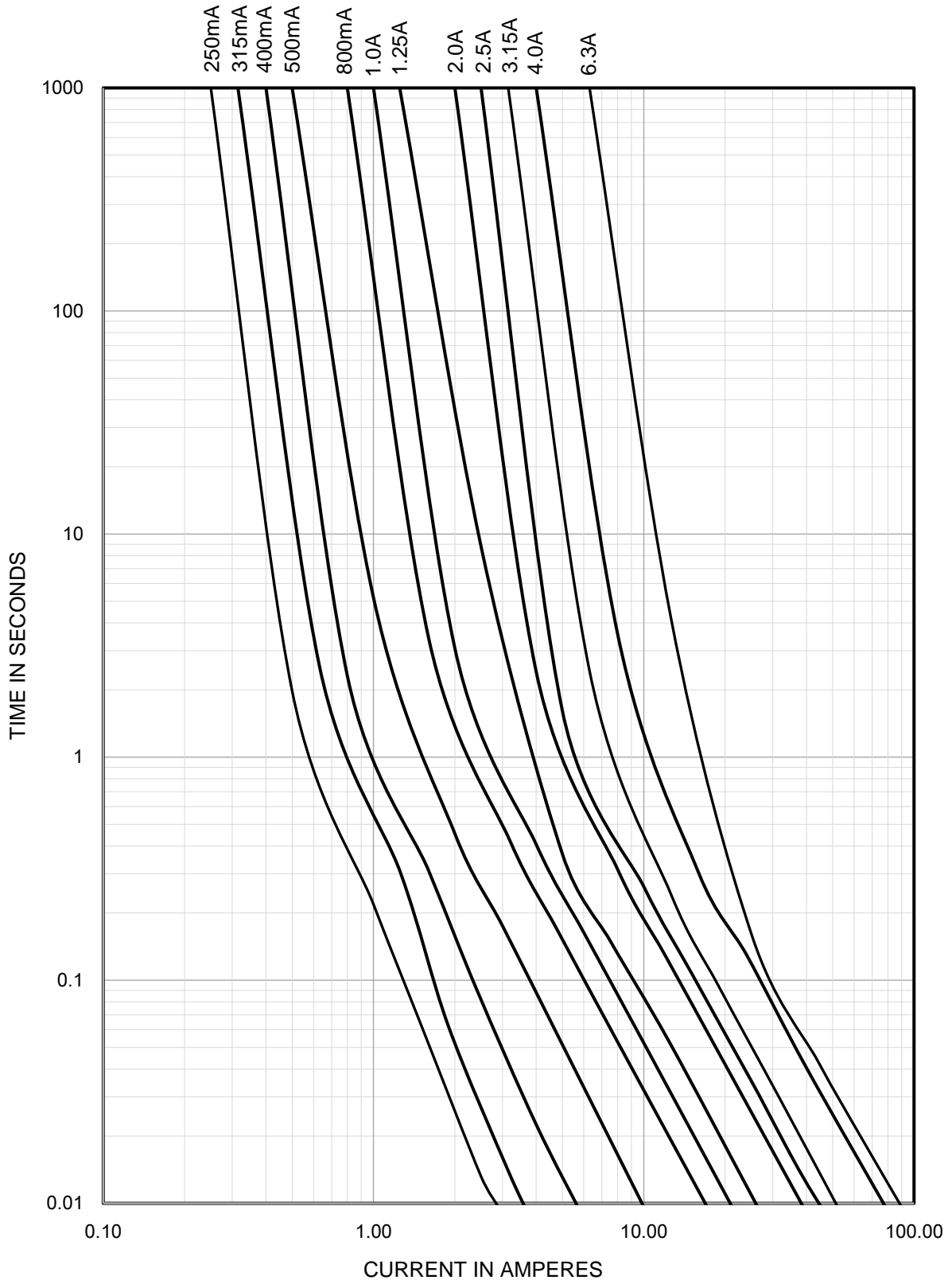
1. AC Interrupting Rating measured at designated voltage, 100% power factor; DC Interrupting Rating measured at designated voltage, time constant of less than 50 microseconds, battery source
2. DC Cold Resistance are measured at <10% of rated current in the ambient temperature of 25 °C
3. Typical Pre-arcing I²t are measured at 10In Current

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Average Current Curves(I-T Curves)

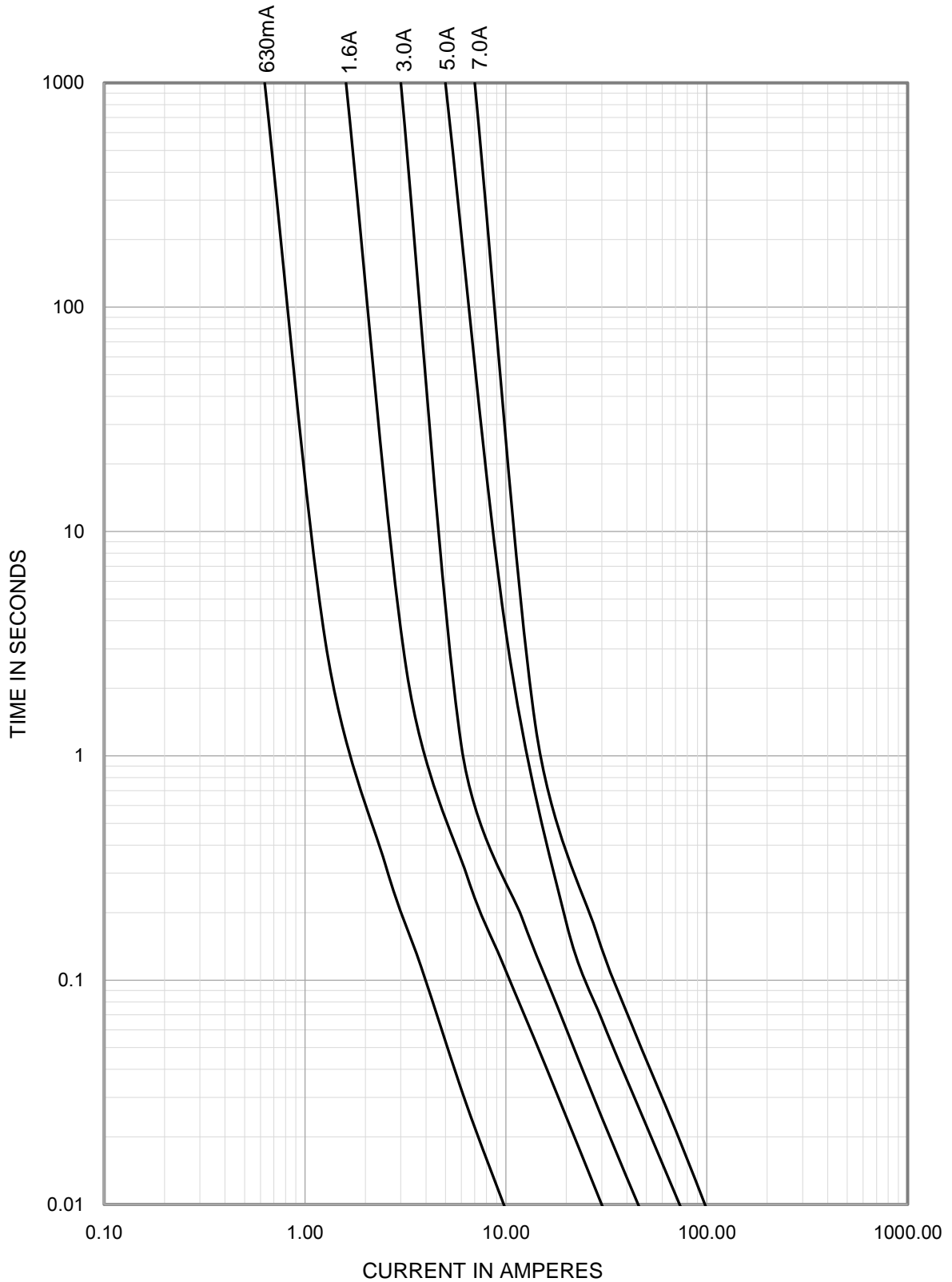


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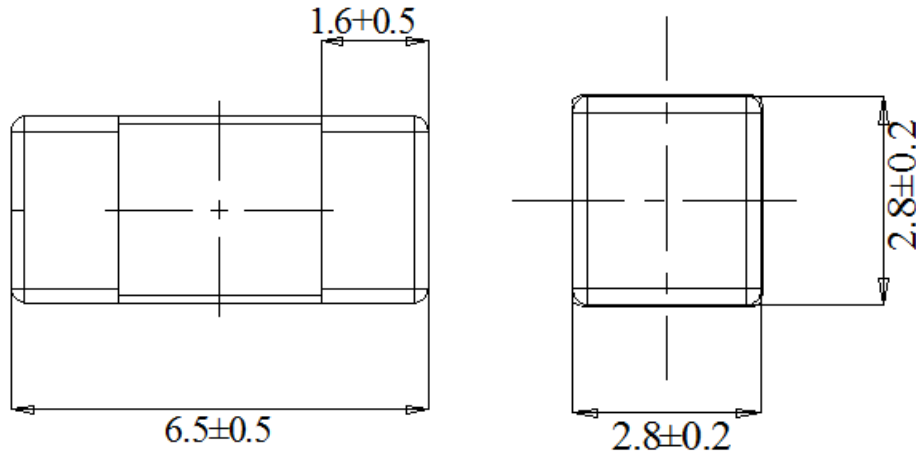
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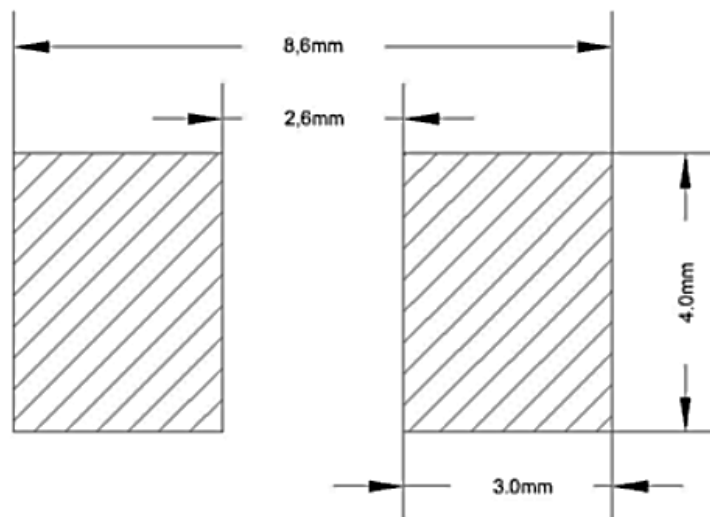
Dimension

Drawing not to scale (Unit: mm)



Soldering method

- Recommended land pattern (mm)



Recommend Stencil thickness is 0.15mm

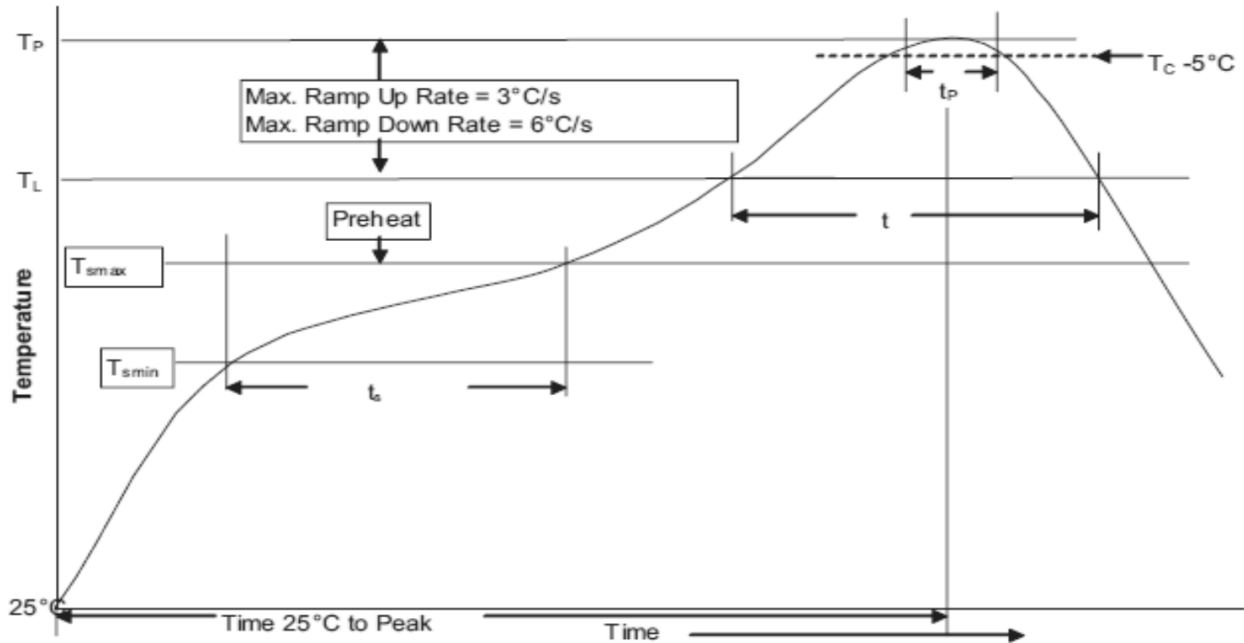
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Infrared Reflow

- 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}) (t_s)	60 - 120 Seconds
Average ramp up rate T_{smax} to T_P		3°C / Second Max.
Liquidous temperature (T_L)		217°C
Time at liquidous (t_L)		60 - 150 Seconds
Peak package body temperature (T_P)		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 Temperature)		8 Minutes Max.

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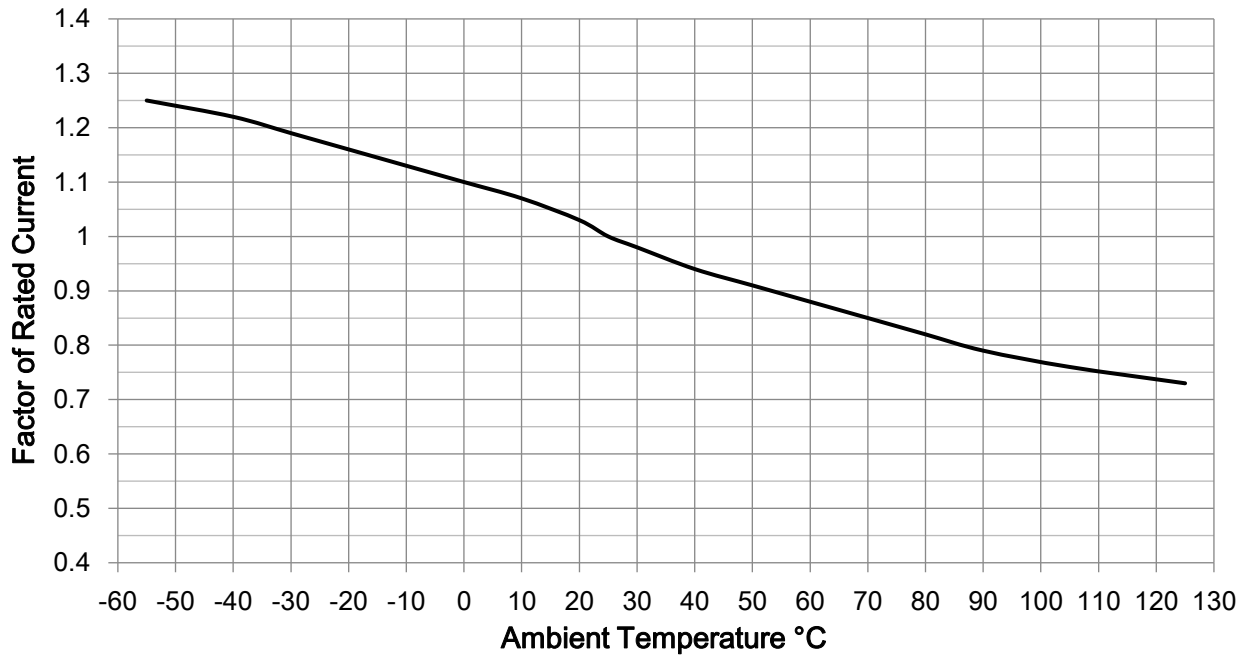


Temperature Derating Curve

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



Storage Temperature: -55°C to 125°C

Package

1000 fuses on 12mm tape-and-reel per EIA Standard 481.

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