

# 250V UMF Time Lag Fuse

## A124501 Series



### Description

- 250Vac Voltage rating brick fuse
- Surface mount design to save space
- Ceramic Square body with end cap design
- Listed to IEC60127-4 Universal Modular Fuse-Links

### Electrical Characteristics

Amp Rating	1.25In	2.0 In	10In
1A-6.3A	1 hour min.	<120s	10ms-100ms

- 1.25In 温升小于 75K

### Specifications



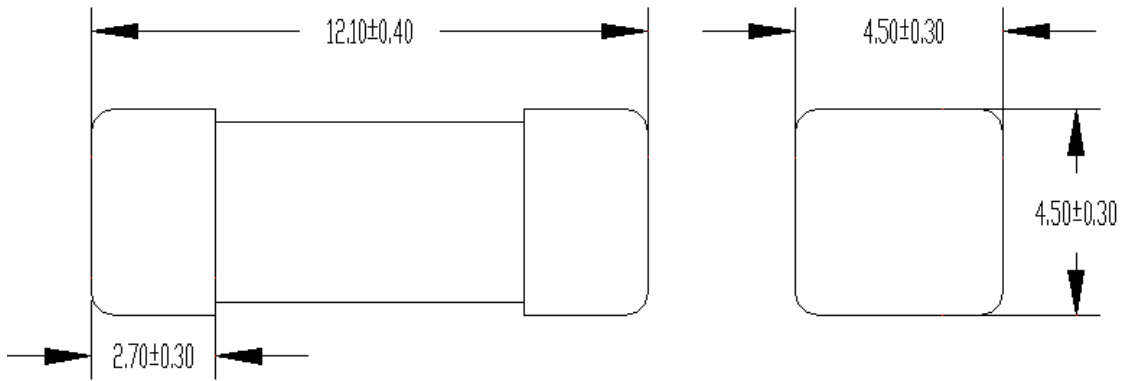
Part No.	Rated Voltage	Rated Current (A)	Breaking Capacity (A) <sup>1</sup>	Typical Cold Resistance (mOhms) <sup>2</sup>	Typical Voltage Drop (mV)	Typical Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) <sup>3</sup>
A124501.1	250Vac 85Vdc	1.00	100A@250Vac 1000A@85Vdc	118	165	2.4
A124501.1.25		1.25		85.0	150	5.0
A124501.1.6		1.60		62.0	140	7.5
A124501.2		2.00		42.0	116	11
A124501.2.5		2.50		33.0	115	15
A124501.3.15		3.15		23.6	95	31
A124501.4		4.00		20.0	125	62
A124501.5		5.00		14.5	100	105
A124501.6.3		6.30		11.0	100	160

1. AC Interrupting Rating: Measured at designated voltage, power factor is greater than 95% and 30 ° closing angle.
2. Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
3. Typical Pre-arcing I<sup>2</sup>t are measured at 8ms.
4. Self-certification for 1000A@85Vdc

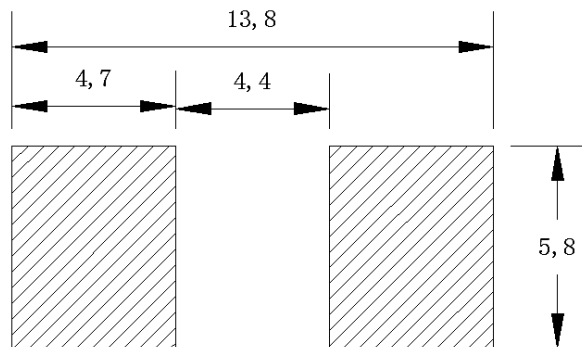
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## Dimension: (mm)

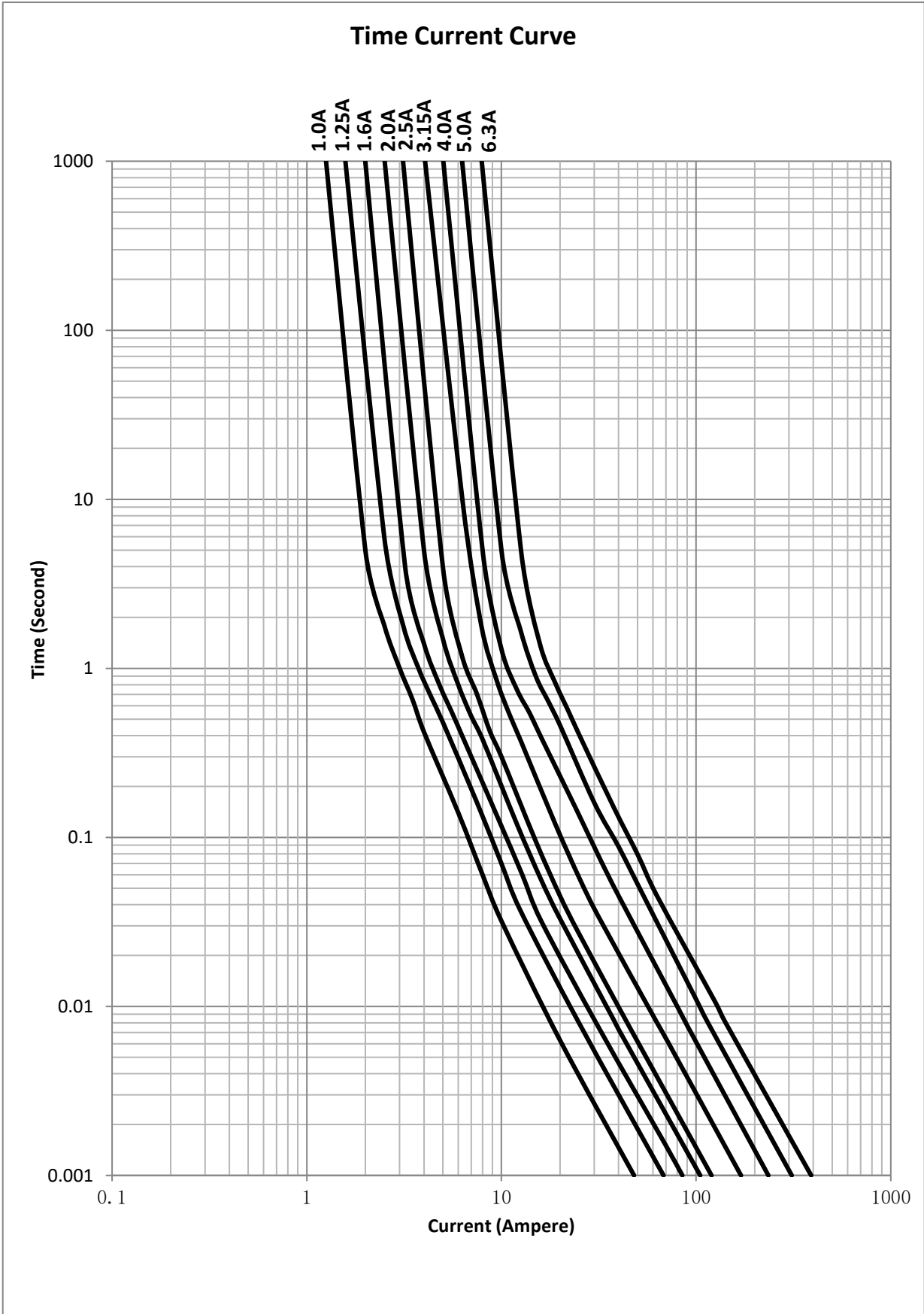


## Recommended Pad Layout



Recommended stencil thickness is 0.15mm

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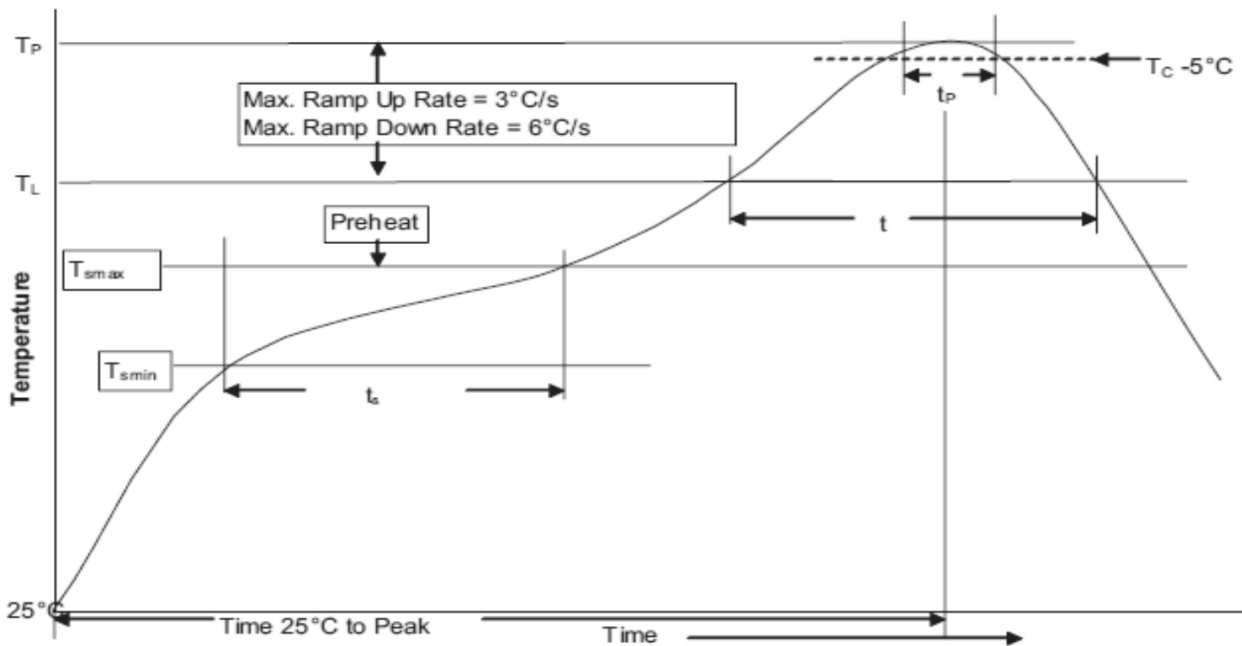
## Soldering Characteristics

### Wave Immersion

- Reservoir Temperature: 260° C
- Time in Reservoir : 10 Seconds Maximum

### 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.

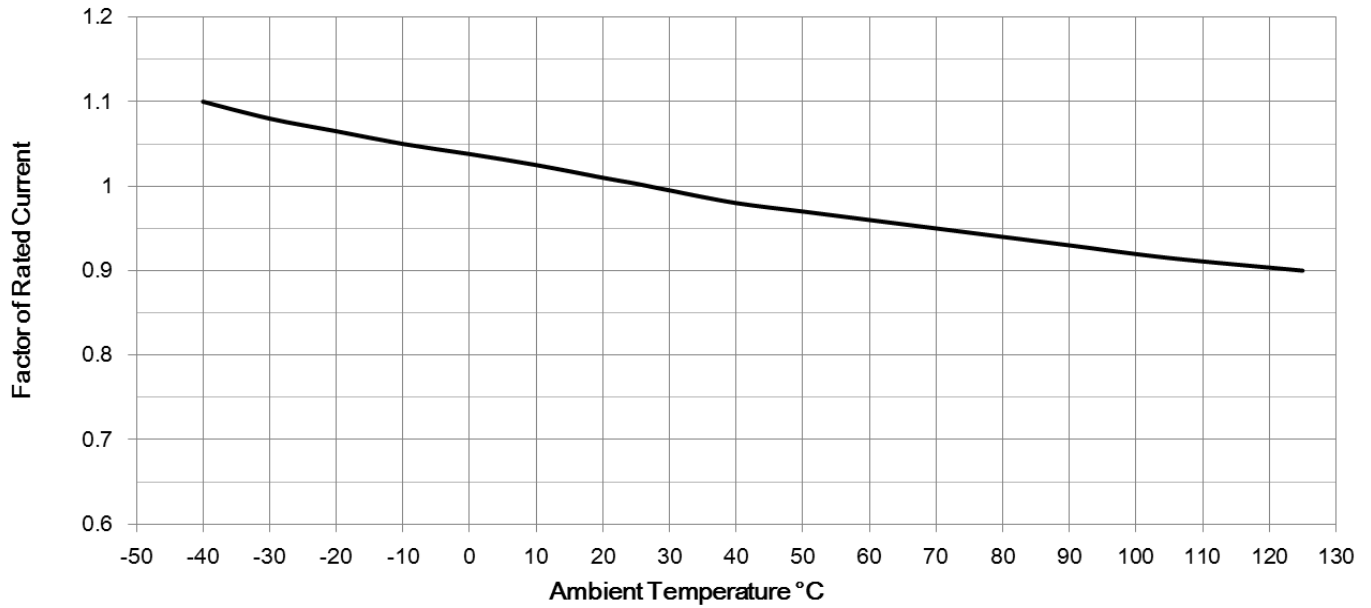
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### Temperature derating curve

- Normal Operating Temperature: 25°C ± 2°C
- Operating Temperature: -40°C to 125°C with proper correction factor applied.
- Chart of correction factor



25 °C		-40 °C		125 °C	
1.25 In	>1 hour	1.25 In*1.1	>1 hour	1.25 In*0.9	>1 hour
2.0In	<120 Second	2.0In*1.1	<120 Second	2.0In*0.9	<120 Second
10In	10ms-100ms	10In*1.1	10ms-100ms	10In*0.9	10ms-100ms

### Package and Minimum order QTY

1000pcs fuses in tape (width 24mm) and reel (dia. 13inch)