

1040 High Current SMD fuses

40 100 Series

General Description

40 100 SMD fuse are small size, good electrical performance with reliability and quality. The unique element design provides excellent on-off and temperature cycling characteristics during use, and more heat tolerant than traditional subminiature fuses.



Description

- 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	100%	200%
15-40A	> 4H	5-60S
50-60A	> 4H	5-240S

Specifications

Order Code	Rated Current	Rated Voltage	Breaking Capacity				Typical Voltage Drop(mV)	Typical Melting I ² t (A ² sec)	Typical Cold Resistance (mΩ)
			AC	32Vdc	72Vdc	60Vdc			
40 100.15	15A	125Vac 250Vac 72Vdc 32Vdc	150A	1000A	500A	-	85	78	3.56
40 100.20	20A						75.0	132	2.70
40 100.25	25A						68.5	196	2.10
40 100.30	30A						68.0	225	1.70
40 100.40	40A						63.5	756	1.10
40 100.50	50A	125Vac 60Vdc 32Vdc	250A	-	500A	45.0	3,025	0.50	
40 100.60	60A					42.0	6,400	0.45	

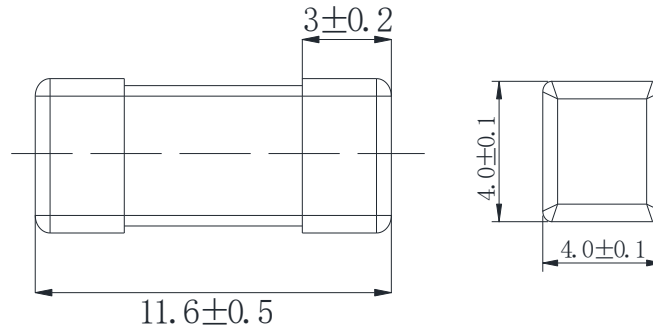
Note:

- 1) The current value used for calculating I²t should be within the standard range of 8-10ms..

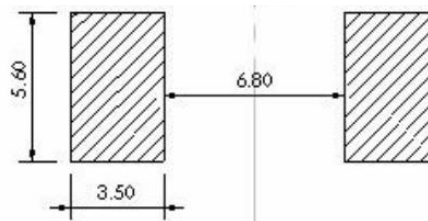
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Dimension (mm)



Recommended Pad Layout



Note: Minimum copper layer thickness = 100um.

Soldering Characteristics

Wave Immersion

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

Infrared Reflow

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

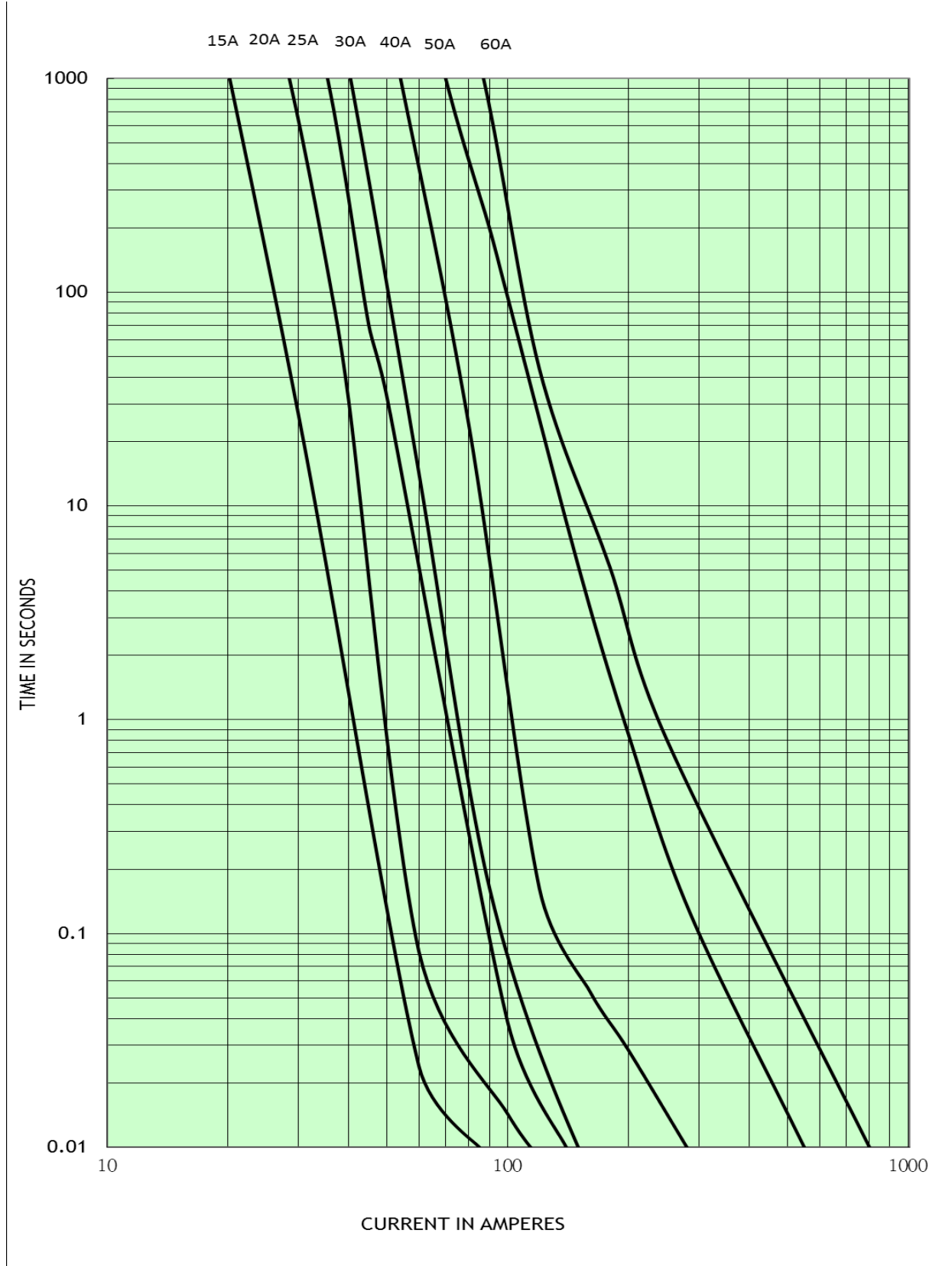
Hand Soldering (not recommended)

- Maximum tip temperature: 350°C
- Maximum soldering time: 5 seconds max

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Time Current Curve



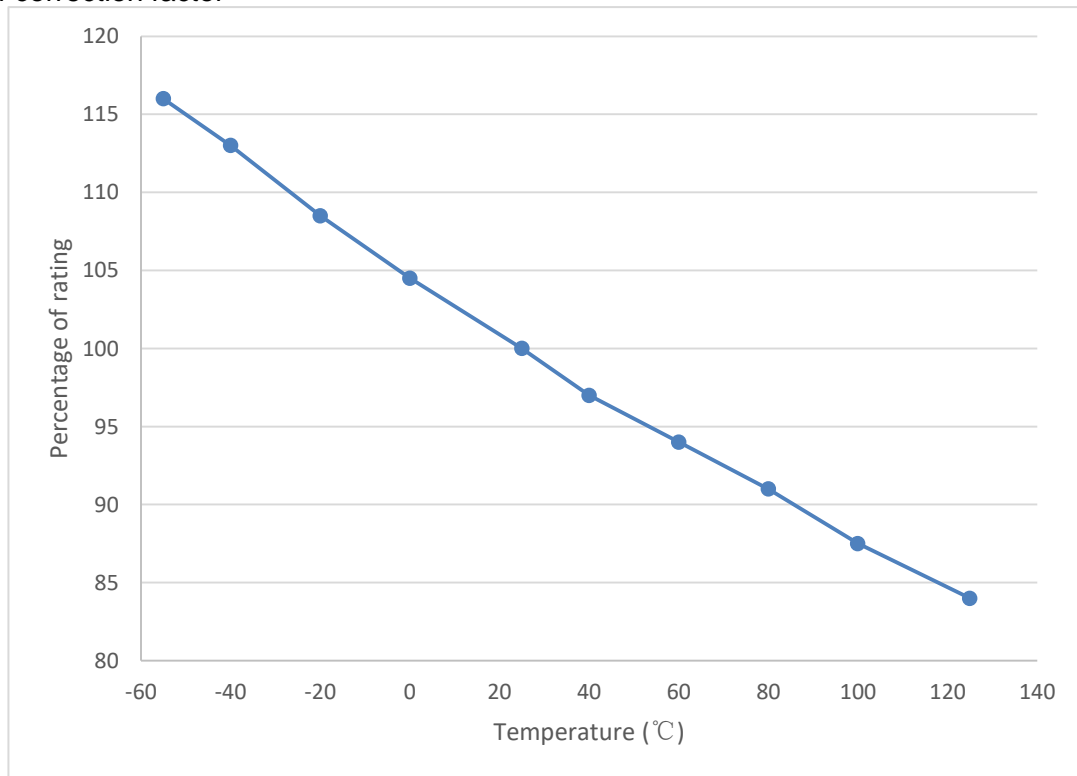
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Temperature Rerating Curve

Normal Operating Temperature: 25°C ± 2°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 and Minimum order QTY

1500pcs fuses in tape (width 24mm) and reel (dia. 13inch).

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