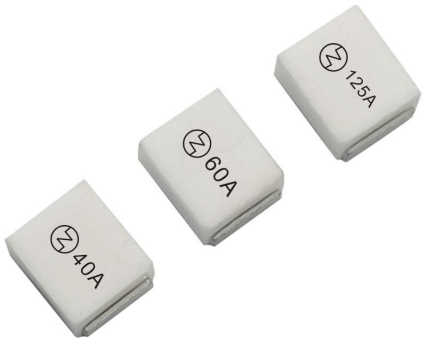
8810F

Surface Mount Fuses 8810F 7.3X5.8X4.2 (mm)

REOMAX ELECTRONICS TECHNOLOGY Co.,LTD

RoHS Compliance | REACH Compliance | Halogen Free



Description

REOMAX The8810 high Current Fuse is designed for the purpose of external short circuit protection of the lithium ion battery of medium sizes, such as a power tool and an electric assistant bicycle.Though it was a surface mount type, it was small and realized high current rating, because a fuse element and a terminal adopt the structure of one.

% rated current	Opening Time Min / Max (s)
	20A~125A
100%	>4h
200%	<120S

Features

- Small size with high current rating for short circuit protection
- Ceramic body with Ceramic base filler
- Suitable for automatic mounting
- Surface mount type and small size of 7.3x5.8x4.2(mm)
- RoHS and Lead Free material

Agency Approvals		
Agency	Ampere Range	Agency File Number
cULus	20A~125A	E340427

Applications

- Storage system power
- Cooling fan system for PC server / PC
- Voltage regulator module
- Base station power supply
- Voltage regulator module for PC server / PC
- High-end server/Blade server
- Battery management system

Electrical Specifications

Part Number	Ampere Rating	Voltage Rating	Breaking Capacity	Typical Cold DCR*(mΩ)	Melting I²t @10 In [A²s]	Agency Approvals cULus
8810F.40	40A	DC125V DC110V DC100V DC85V DC 75V DC 48V DC 32V	1KA	1.04	384	●
8810F.50	50A			0.91	625	●
8810F.60	60A			0.84	1548	●
8810F.80	80A			0.61	3712	●
8810F.100	100A			0.45	5800	●
8810F.125	125A			0.40	7800	●

Sales contact
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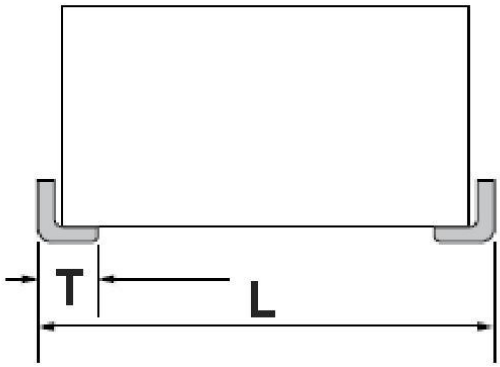
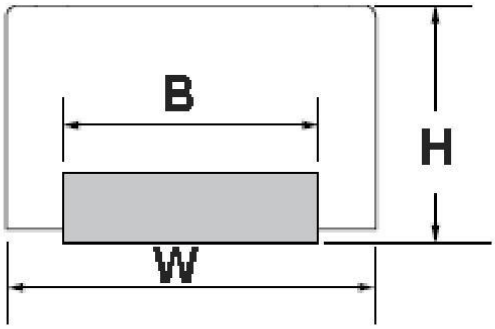
Specifications are subject to change without notice.
Revised: 04/10/2023

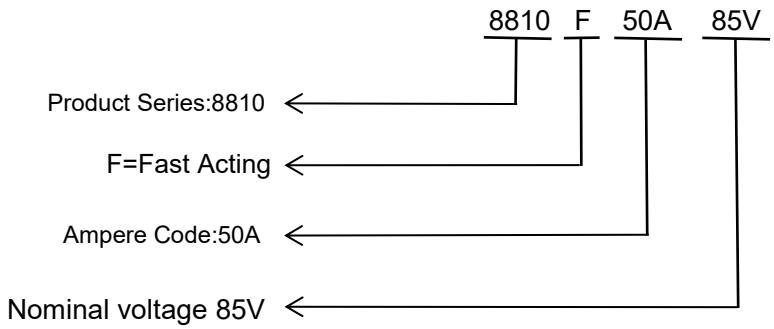
Dimensions: mm



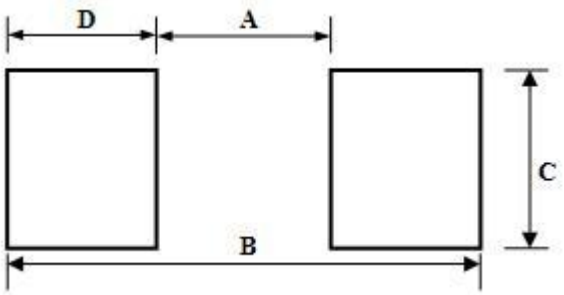


Models	T(mm)	L(mm)	B(mm)	W(mm)	H(mm)
8810F	1.00±0.3	7.3±0.5	4.00±0.3	5.80±0.3	4.2±0.3

Ordering Information:



Recommended layout



Models	8810F
A(mm)	4.40±0.3
B(mm)	9.80±0.3
C(mm)	5.80±0.30
D(mm)	2.70±0.30

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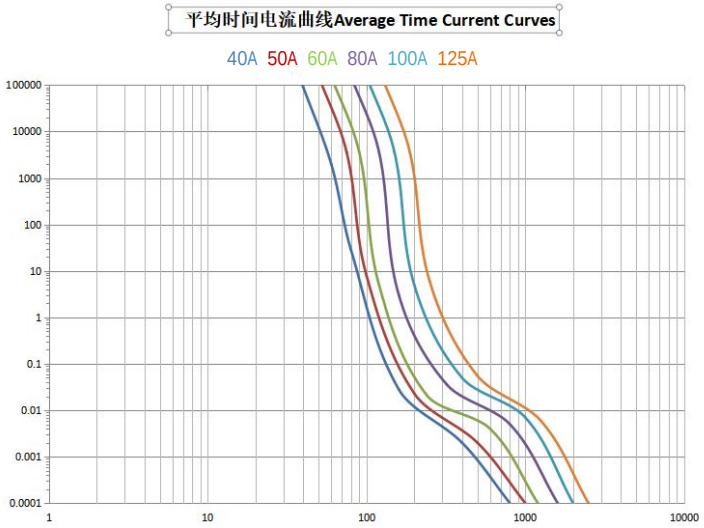
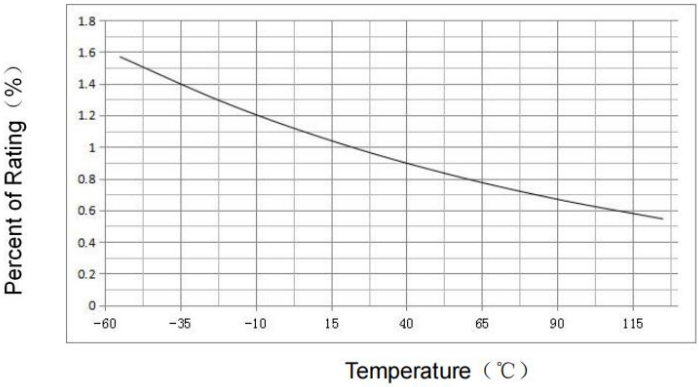
Materials：

Serial number	Part Name	Material
1	Body	Ceramic
2	Fuse element	Tin Plated Copper

Average Time Current Curves：



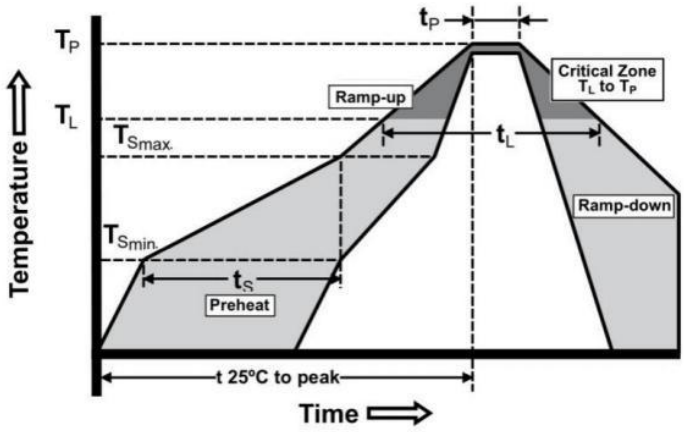
Environmental Characteristic



Recommended Soldering Parameters

Infrared Reflow:

- Temperature: 260℃
- Time: 20sec Max.
- Recommend Reflow profile



Profile Feature	Pb-Free Assembly
Average Ramp-up Rate(Ts_{max} to Tp)	3℃/sec Max.
Preheat Temperature Min.(Ts_{min}) Temperature Max.(Ts_{max}) Time(Ts_{min} to Ts_{max})	 150℃ 200℃ 60sec~120sec
Peak Temperature(Tp)	260℃
Time within 5℃ of actual Peak Temperature(t_p)	20sec
Temperature (TL)	217℃
Melting tin time(t_L)	60sec~150sec
Ramp-down Rate	6℃/sec Max.
Time 25℃ to peak Temperature	8min Max.

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