Features Typical





Main Characteristics

SMD fuse; Fast Acting(F);2410 Designed to UL E311435

Materials

Body: Ceramic

End Caps: Copper plated with silver

Environment Standard

Lead-free, Halogen-free, RoHS

Vibration Resistance

10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

Stock Temperature

+10°C to +60°C

Relative humidity: ≤75% yearly average Without dew, maximum 30 days at 95%

Operating temperature:

-55°C to +125°C (with de-rating)

2410WLF

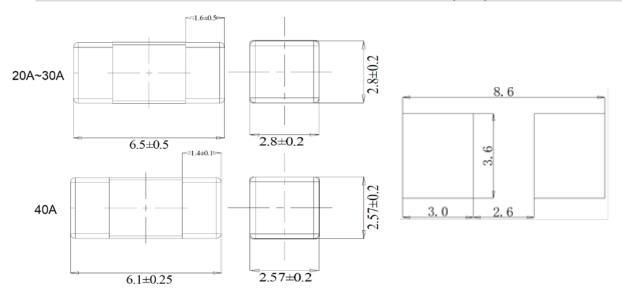
series (Rev:C)

SMD chip fuse

Applications

Circuit Protecting in notebook PC, telecom system, LCD/PDP TV, wireless goods,LCD monitor, white goods, LCD/PDP panel, game console, power supply, net working and other electronics products.

Product Dimensions and Recommended Land Pattern (mm)



Dimensions

Recommended Land Pattern

Clear-Time Characteristics (Fast Acting)

% of current rating	Clear-time at 25 °C	
100%	4 hours min.	
200%	60 seconds max.	

Part Numbering

2410 W LF 2000A 072V (A)

(1) (2) (3) (4) (5) (6)

(1) Size code: Standard EIA Chip Size

(2) Company code: Wayon Chip Fuse

(3) Series code: LF series

(4) Current rating code:2000A-20A

(5) Voltage rating code:072V-72VDC

(6) Supplementary Code: The default is empty, alphabet and number denoting customer code or package code.

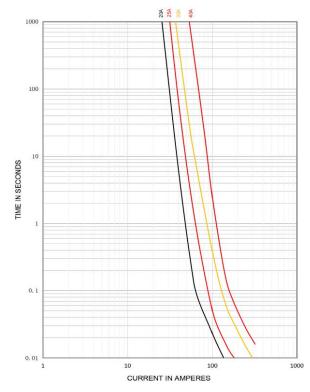
Electrical Characteristics

Part number	Current Rating	Voltage Rating	Interrupting Ratings	Nominal Cold DCR	Nominal I ² t	Marking Code
	Α	٧	Α	mΩ	(A ² s)	
2410WLF2000A072V	20	72V DC	V DC 500A@72V DC	1.98	220	20F
2410WLF2500A072V	25			1.53	420	25F
2410WLF3000A072V	30			1.04	990	30F
2410WLF4000A063V	40	63V DC	500A@63V DC	0.9	1600	40F

Notice: 1. Permissible continuous operating current is ≤100% at ambient temperature of 23° C (73.4° F)

2. The current values used for calculating I2T should be 10In current.

Average Clear-Time Curves



Specifications are subject to change without notice

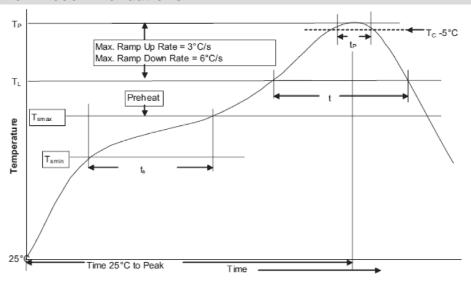
Wayon Electronics Co.,Ltd.

No. 1001, Shiwan Qi Road, Shanghai 201202, P. R. China

Tel: 86-21-50968322

E-mail: hangl@way-on.com Http://www.way-on.com

Solder Reflow Recommendations



Recommended conditions for hand soldering:

1.Infrared Reflow:

Temperature: 260 °C

Time: 5sec Max.

Recommend reflow profile

2. Wave Soldering

Reservoir Temperature: 260 °C Time in Reservoir: 10sec Max.

Profile Feature		Pb-Free Assembly	
Average Ramp-UP Rate(Tsmax to Tp)		3℃/s Max.	
Preheat	Temperature Min(Ts min)	150℃	
	Temperature Max(Ts max)	200℃	
	Time(Tsmin to Ts max)	60sec∼120sec	
Liquidous temperature(T _L) Time at liquidous(t _L)		217℃ 60~150s	
Peak package body temperature(Tp)		260℃	
Time (tP) within 5℃ of the specified classification temperature (Tc)		30s	
Average ramp-down rate (T _p to T _{smax})		6°C/s Max.	
Time (25°C to Peak Temperature)		8 minutes Max.	

■ Reliability Tests:

No.	Test	Requirement	Test condition	Test reference
1	High Temperature Test	DCR change ≤±10%,Conforming to Clear-Time characteristics 85°C,96hours.		Refer to WAYON Standard
2	Low Temperature Test	DCR change ≤±10%,Conforming to Clear-Time characteristics	-40°C,96hours.	Refer to WAYON Standard
3	High Humidity Test	DCR change ≤±10%,Conforming to Clear-Time characteristics	40°C,95%RH, 96hours.	Refer to WAYON Standard
4	Thermal shock	DCR change ≤±10%,Conforming to Clear-Time characteristics	-40°C/30min,85°C/30min, 100cycles	MTL-STD-202 Method 107
5	Falling Shock Test	DCR change ≤±10% No mechanical damage	from 75 cm high natural land on flat plate	Refer to WAYON Standard

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Electrical Specifications:

Clear-Time Characteristics:

Same as specified on the Short Form Data Sheet

Insulation Resistance after Opening:

20,000 ohms minimum when cleared with rated voltage applied. Fuse clearing under low voltage conditions may result in lower after clearing insulation resistance values. (Note: Under normal fault conditions (low or rated voltage conditions), WAYON chip fuses provide sufficient after clearing insulation resistance values for circuit protection.)

Current Carrying Capacity:

100% rated current at +25°C ambient for 4 hours minimum when evaluated per MIL-PRF-23419

Interrupt Ratings:

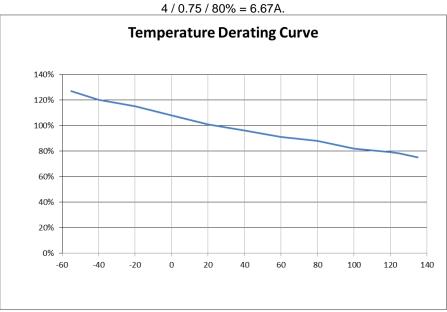
Same as specified on the Short Form Data Sheet

Fuse Selection and Temperature De-rating Guideline:

The ambient temperature affects the current carrying capacity of fuses. When a fuse is operating at a temperature higher than 25°C, the fuse shall be "de-rated".

To select a fuse from the catalog, the following rule may be followed: Catalog Fuse Current Rating = Nominal Operating Current / 0.75 / % De-rating at the maximum operating temperature.

Example: At 100°C, % De-rating is 80%. The nominal operating current is 4A. The current rating for fuse selected from the catalog shall be:



Packaging and Storage:

Storage

The maximum ambient temperature shall not exceed 40°C. Storage temperatures higher than 40°C could result in the deformation of packaging materials. The maximum relative humidity recommended for storage is 70%. High humidity with high temperature can accelerate the oxidation of the solder plating on the termination and reduce the solderability of the components. Sealed plastic bags with desiccant shall be used to reduce the oxidation of the termination and shall only be opened prior to use. The products shall not be stored in areas where harmful gases containing sulfur or chlorine are present.

Packaging

WAYON's chip fuse are provided on tape-and-reel for use in pick-and-place machines or in bulk for special applications. Both tape-and-reel and bulk products are sealed in plastic bags with desiccant.

Packaging Data

1000pcs/Reel

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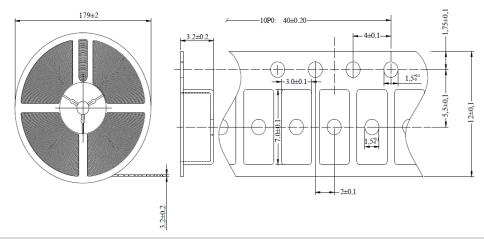
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Cautions and warnings:

1、Handling

- > CHIP FUSE must not be dropped. Chip-offs must not be caused during handling of FUSEs.
- > Components must not be touched with bare hands. Gloves are recommended.
- Avoid contamination of fuse surface during handling.

2. Soldering

- Use resin-type flux or non-activated flux.
- Insufficient preheating may cause ceramic cracks.
- > Rapid cooling by dipping in solvent is not recommended.
- Complete removal of flux is recommended.

3. Mounting

- > Electrode must not be scratched before/during/after the mounting process.
- > Contacts and housings used for assembly with fuses have to be clean before mounting.
- > During operation, the fuse's surface temperature can be very high (ICL). Ensure that adjacent components are placed at a sufficient distance from the fuse to allow for proper cooling of the fuses.
- Ensure that adjacent materials are designed for operation at temperatures comparable to the surface temperature of the fuse. Be sure that surrounding parts and materials can withstand this temperature.
- > Avoid contamination of fuse surface during processing.

4. Operation

- > Use fuses only within the specified operating temperature range.
- > Environmental conditions must not harm the fuses. Use fuses only in normal atmospheric conditions.
- Contact of chip fuses with any liquids and solvents should be prevented. It must be ensured that no water enters the chip fuse (e.g. through plug terminals). For measurement purposes (checking the specified resistance vs. temperature), the component must not be immersed in water but in suitable liquids (e.g. Galden).
- > Avoid dewing and condensation.

Notice:

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>>WAY-ON(维安)