

## Fast Acting | 0.24x0.10 inch Surface Mount Fuse

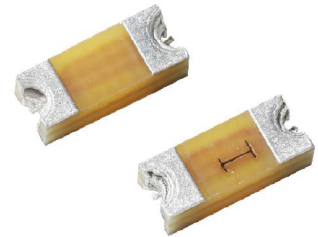
## 2410FA-W Series

2410FA-W Series are wire-in-air surface mount fuses. The maximum breaking voltage is 250V and maximum breaking current is 400A. The product size is small, especially the height direct is only 2.2mm, which can meet the design of limit space.



### Features

- Electroplated copper is used to connect electrodes, with high reliability;
- Wide range of specification: 0.5A-30A;
- Structural characteristics I<sup>2</sup>T is stable, with strong surge resistance;
- Sealing structure strong resistance to harsh environment;
- Wire-in-air design, safe breaking, no sparks;
- 100% lead-free, halogen-free, RoHS compliant



### Electrical Characteristics

| Amp Rating | % of Amp Rating | Opening Time     |
|------------|-----------------|------------------|
| 0.5~30A    | 100%            | 4 Hours Min.     |
|            | 200%            | 120 Seconds Max. |

### Specifications

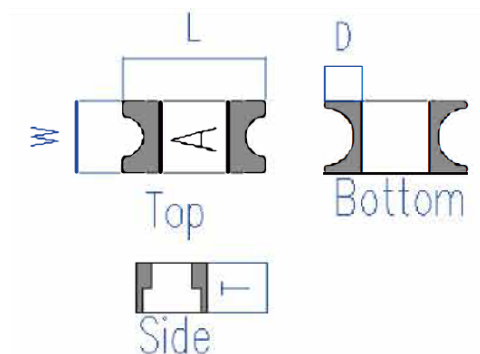
| Part Number    | Ampere Rating (A) | Voltage Rating   | Interrupting Rating                            | Typical Cold Resistance (Ohms) | Normal I <sup>2</sup> t (A <sup>2</sup> Sec) | Marking Code |
|----------------|-------------------|------------------|------------------------------------------------|--------------------------------|----------------------------------------------|--------------|
| 2410FA-R500-W  | 0.50              | 125Vdc<br>250Vac | 100A @ 125Vdc<br>100A @ 250Vac<br>300A @ 48Vdc | 0.225                          | 0.10                                         | A            |
| 2410FA-R630-W  | 0.63              |                  |                                                | 0.171                          | 0.12                                         | B            |
| 2410FA-R750-W  | 0.75              |                  |                                                | 0.117                          | 0.23                                         | C            |
| 2410FA-1A-W    | 1.00              |                  |                                                | 0.090                          | 0.57                                         | D            |
| 2410FA-1.25A-W | 1.25              |                  |                                                | 0.070                          | 0.70                                         | E            |
| 2410FA-1.5A-W  | 1.50              |                  |                                                | 0.063                          | 0.81                                         | F            |
| 2410FA-1.6A-W  | 1.60              |                  |                                                | 0.055                          | 1.10                                         | U            |
| 2410FA-2A-W    | 2.00              |                  |                                                | 0.036                          | 2.50                                         | H            |
| 2410FA-2.5A-W  | 2.50              |                  |                                                | 0.030                          | 3.30                                         | I            |
| 2410FA-3A-W    | 3.00              |                  |                                                | 0.024                          | 0.9                                          | J            |
| 2410FA-3.15A-W | 3.15              |                  |                                                | 0.023                          | 1.0                                          | K            |
| 2410FA-3.5A-W  | 3.50              |                  |                                                | 0.020                          | 2.4                                          | V            |
| 2410FA-4A-W    | 4.00              |                  |                                                | 0.017                          | 3.2                                          | L            |
| 2410FA-5A-W    | 5.00              |                  |                                                | 0.014                          | 5.0                                          | M            |
| 2410FA-6.3A-W  | 6.30              |                  |                                                | 0.0118                         | 6.1                                          | N            |
| 2410FA-7A-W    | 7.00              | 125Vdc           | 50A @ 125Vdc<br>300A @ 48Vdc                   | 0.0099                         | 9.8                                          | O            |
| 2410FA-8A-W    | 8.00              |                  |                                                | 0.0082                         | 14.2                                         | P            |
| 2410FA-10A-W   | 10.0              |                  |                                                | 0.0071                         | 22.5                                         | Q            |
| 2410FA-12A-W   | 12.0              |                  |                                                | 0.0049                         | 43.2                                         | R            |
| 2410FA-15A-W   | 15.0              | 72Vdc            | 60A @ 72Vdc<br>300A @ 48Vdc<br>400A @ 32Vdc    | 0.0038                         | 67.5                                         | S            |
| 2410FA-20A-W   | 20.0              |                  |                                                | 0.0031                         | 116                                          | T            |
| 2410FA-25A-W   | 25.0              |                  |                                                | 0.0024                         | 153                                          | X            |
| 2410FA-30A-W   | 30.0              |                  |                                                | 0.0019                         | 252                                          | Y            |

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#### Dimension Unit: mm

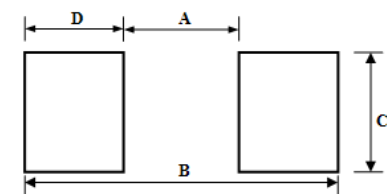


#### Packaging

- Quantity: 2,000pcs
- 12mm wide tape on 178mm(7 inch) diameter reel -specification EIA Standard 481.

| Type   | L       | W       | T       | D        |
|--------|---------|---------|---------|----------|
| 2410FA | 6.1±0.2 | 2.5±0.2 | 2.1±0.2 | 1.4±0.35 |

#### Recommended Land Patterns Unit: mm

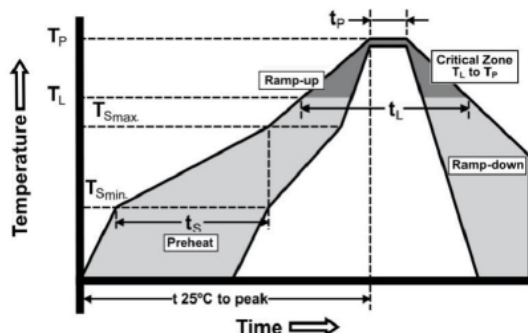


| Type   | A   | B   | C   | D   |
|--------|-----|-----|-----|-----|
| 2410FA | 3.0 | 8.0 | 3.0 | 2.5 |

#### Soldering Parameters

##### 1. Infrared Reflow:

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



##### IR Reflow Profile

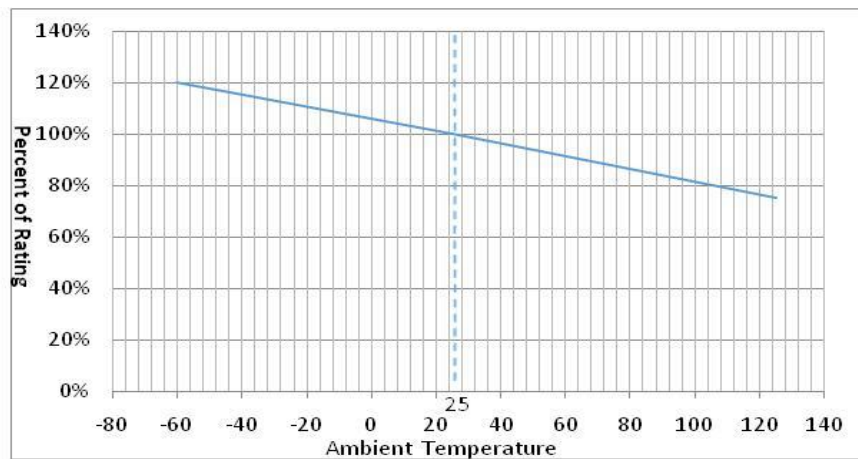
|                                                                   |                  |
|-------------------------------------------------------------------|------------------|
| <b>Preheat Heat</b>                                               |                  |
| Temperature min (T <sub>Smin</sub> )                              | 150°C            |
| Temperature max(T <sub>Smax</sub> )                               | 200°C            |
| Time (T <sub>Smin</sub> to T <sub>Smax</sub> ) (t <sub>S</sub> )  | 60 - 120 seconds |
| <b>Average ramp-up rate (T<sub>Smax</sub> to T<sub>P</sub>)</b>   | 3°C/second max.  |
| <b>Liquidous temperature (T<sub>L</sub>)</b>                      | 217°C            |
| Time at liquidous (t <sub>L</sub> )                               | 60 - 150 seconds |
| <b>Peak temperature(T<sub>P</sub>)</b>                            | 260°C            |
| <b>Time within 5°C of actual peak Temperature (t<sub>P</sub>)</b> | 20 seconds       |
| <b>Average ramp-down rate (T<sub>P</sub> to T<sub>Smax</sub>)</b> | 6°C/second max.  |
| <b>Time 25 °C to peak temperature</b>                             | 8 minutes max.   |

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### Temperature Derating Curve



### Average Time Current Curves

