

## Description

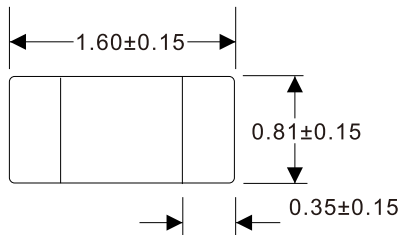
- 1.6x0.81x0.65mm physical size
- Solder-free design
- Designed to UL248-1
- RoHS compliant, Halogen free and Lead-free



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## Dimensions

(Unit: mm)



## Agency information

File Number: E340427, Guide JDYX2/JDYX8

## Specifications

| Part No.      | Rated Voltage (Vdc) | Rated Current (A) | Breaking Capacity (A) | Typical Cold Resistance (mOhms) | Typical Voltage Drop (mV) | Typical Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) | Alpha Mark |
|---------------|---------------------|-------------------|-----------------------|---------------------------------|---------------------------|--|------------|
| R06.000.0.25  | 63                  | 0.25              | 50A                   | 3100                            | 1435                      | 0.0012   | D          |
| R06.000.0.375 |                     | 0.375             |                       | 1600                            | 1250                      | 0.0028   | E          |
| R06.000.0.5   |                     | 0.5               |                       | 1000                            | 750                       | 0.005  | F          |
| R06.000.0.75  |                     | 0.75              |                       | 440                             | 550                       | 0.015  | G          |
| R06.000.1     |                     | 1                 |                       | 257                             | 390                       | 0.02   | B          |
| R06.000.1.5   |                     | 1.5               |                       | 137                             | 320                       | 0.07   | H          |
| R06.000.2     |                     | 2                 |                       | 70.5                            | 220                       | 0.14   | K          |
| R06.000.2.5   |                     | 2.5               |                       | 52                              | 200                       | 0.25   | L          |
| R06.000.3     |                     | 3                 |                       | 34                              | 155                       | 0.30   | O          |
| R06.000.3.5   |                     | 32                |                       | 3.5                             | 23                        | 135  | 0.50       |
| R06.000.4     | 4                   |                   | 20.5                  | 130                             | 0.80                      | S  |            |
| R06.000.5     | 5                   |                   | 13.25                 | 115                             | 1.6                       | T  |            |
| R06.000.6     | 6                   |                   | 8.9                   | 100                             | 2.6                       | V  |            |
| R06.000.7     | 7                   |                   | 6.95                  | 95                              | 3.3                       | X  |            |
| R06.000.8     | 8                   |                   | 5.43                  | 90                              | 4.5                       | Z  |            |

\* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

\* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

\* Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current

\* For fuse below 1A, the color of glass coating is Blue; for 1A and above, it's Green.

## Electrical Characteristics

| Rated Current | 1.0In        | 2.0In      | 2.5In       | 3.5In |
|---------------|--------------|------------|-------------|-------|
| 250mA~750mA   | 4.0 hour min | 60 sec max | 5.0 sec max | .     |
| 1~5A          | 4.0 hour min | 60 sec max | 5.0 sec max | .     |
| 6~7A          | 4.0 hour min |            | 5.0 sec max | .     |
| 8A            | 4.0 hour min | -          | 5.0 sec max | .     |

## Installation Recommendations

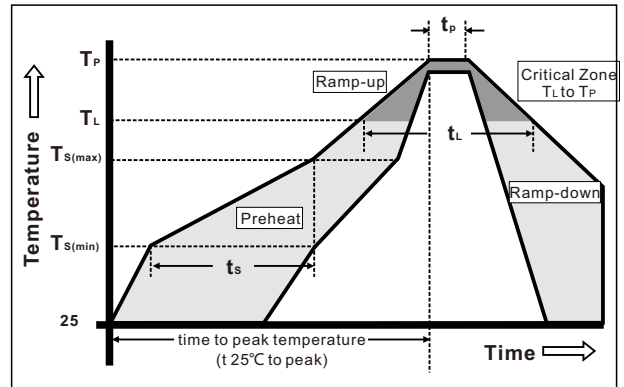
### 1 Wave Soldering Parameters

| Reflow Conditon  |                                    | Pb-free assembly |
|--|------------------------------------|------------------|
| Pre Heat   | - Temperature Min ( $T_{s(min)}$ ) | 150°C            |
|  | - Temperature Max ( $T_{s(max)}$ ) | 200°C            |
|  | - Time (Min to Max) ( $t_s$ )      | 60 - 120 seconds |
| Average Ramp-up Rate (Liquidus Temp ( $T_L$ ) to peak) |                                    | 3°C/second max,  |
| TS(max) to TL - Ramp-up Rate                           |                                    | 5°C/second max,  |
| Reflow   | - Temperature (TL) (Liquidus)      | 217°C            |
|  | - Temperature (tL)                 | 60 - 150 seconds |
| Peak Temperature ( $T_P$ )                             |                                    | 260±0/-5°C       |
| Time within 5°C of actual peak Temperature ( $t_p$ )   |                                    | 30 seconds       |
| Ramp-down Rate   |                                    | 6°C/second max   |
| Time 25°C to peak Temperature ( $T_P$ )                |                                    | 8 minutes max.   |
| Do not exceed  |                                    | 260°C            |

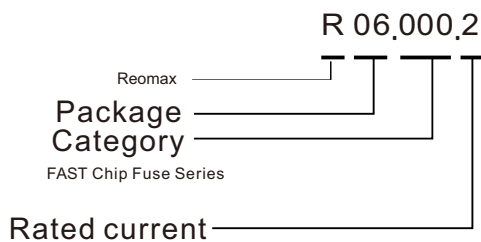
Solder Pot Temperature: 260°C max  
Solder Dwell Time: 10 Seconds max

### 2 Hand-Solder Parameters

Solder Iron Temperature: 280±5°C  
Heating Time: 5 Seconds min  
Generally, hand-soldering is not recommended



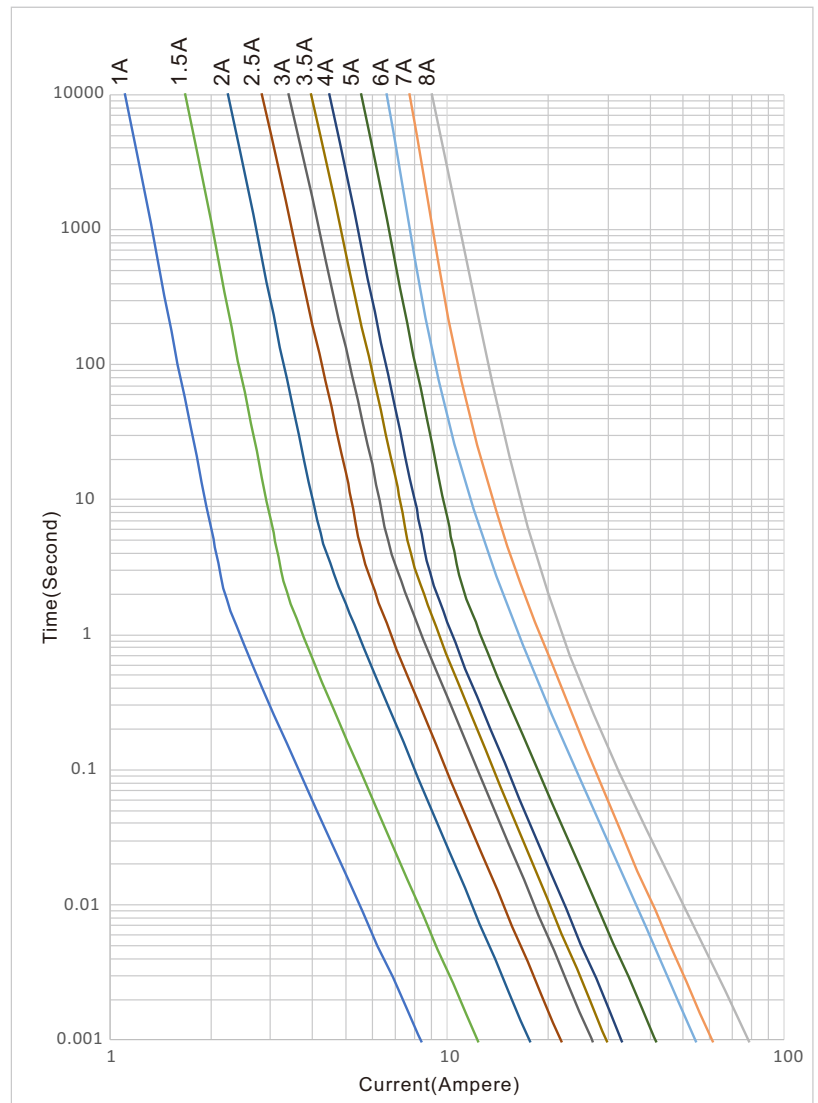
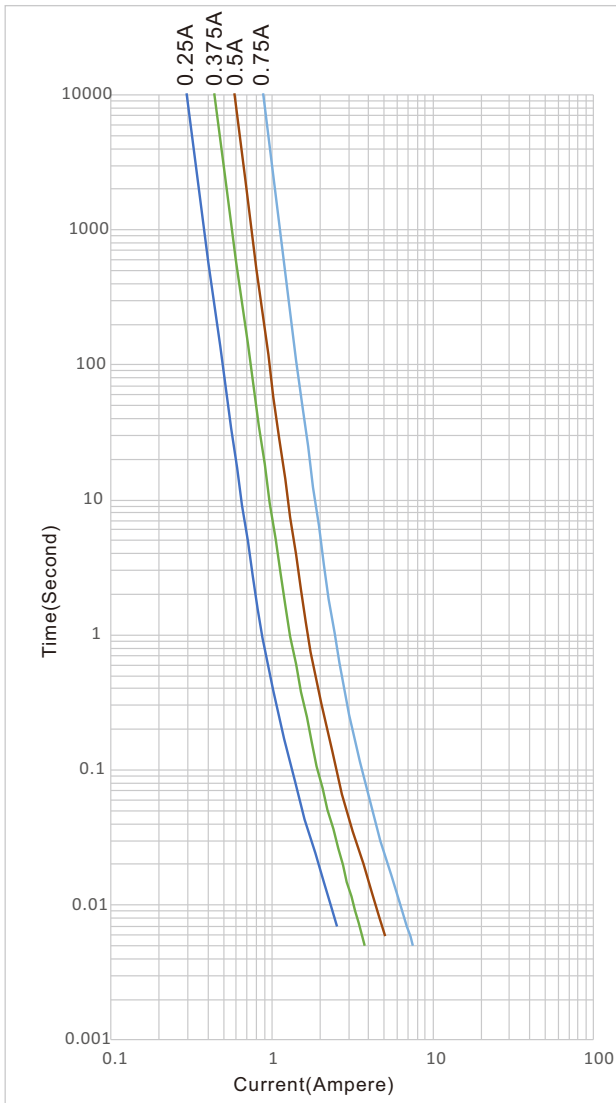
## Part Numbering System



## Product Characteristics

|  |   |
|--|---|
| <b>Materials</b>                           | <b>Body:</b> Ceramic<br><b>Terminations:</b> Silver over-plated with tin<br><b>Element:</b> Alloy(Ag,Cu,Zn)<br><b>Cover Coat:</b> Glass |
| <b>Operatng Temperature</b>                | -55°C to 125°C<br>Consult temperature rerating curve chart,   |
| <b>Thermal Shock</b>                       | 300 cycles -55°C to 125°C   |
| <b>Humidity</b>                            | MIL-STD-202F, Method 103B, Condition D  |
| <b>Vibraton</b>                            | Per MIL-STD-202F, Method 201A   |
| <b>Insulaton Resistance (Afer Opening)</b> | Greater than 10,000 ohms  |
| <b>Resistance to Soldering Heat</b>        | MIL-STD-202G, Method 210F, Condition D  |

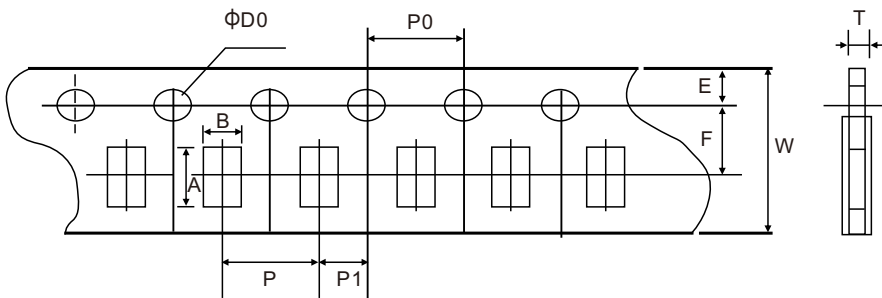
## Time Current Curve



## Packaging

5,000 pieces of fuses in plastic or paper taper

5000pcs)



| Type | A         | B         | W         | F         | E         |
|------|-----------|-----------|-----------|-----------|-----------|
| Spec | 1.85±0.10 | 1.10±0.10 | 8.00±0.10 | 3.50±0.05 | 1.75±0.10 |
| Type | P         | P0        | P1        | D0        | T         |
| Spec | 4.00±0.10 | 4.00±0.10 | 2.00±0.05 | 1.50±0.10 | 0.65±0.10 |

(Unit: mm)

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