



Description

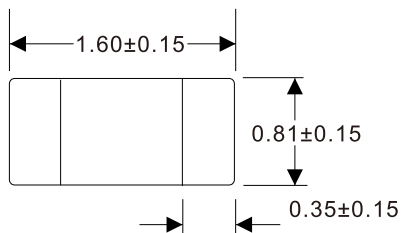
- 1.6x0.81x0.65mm physical size
- Solder-free design
- Designed to UL248-1
- RoHS compliant, Halogen free and Lead-free

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-
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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 ² t (A ² Sec) | Alpha Mark |
|---------------|---------------------|-------------------|-----------------------|---------------------------------|---------------------------|--|------------|
| R06.100.0.25 | 63 | 0.25 | 50A | 3100 | 1435 | 0.0012 | D |
| R06.100.0.375 | | 0.375 | | 1600 | 1250 | 0.0028 | E |
| R06.100.0.5 | | 0.5 | | 1000 | 750 | 0.005 | F |
| R06.100.0.75 | | 0.75 | | 440 | 550 | 0.015 | G |
| R06.100.1 | | 1 | | 240 | 310 | 0.035 | B |
| R06.100.1.5 | | 1.5 | | 125 | 250 | 0.08 | H |
| R06.100.2 | | 2 | | 68 | 170 | 0.16 | K |
| R06.100.2.5 | | 2.5 | | 52 | 200 | 0.29 | L |
| R06.100.3 | | 3 | | 34 | 155 | 0.32 | O |
| R06.100.3.5 | | 32 | | 3.5 | 22 | 130 | 0.54 |
| R06.100.4 | 4 | | 20 | 100 | 0.95 | S | |
| R06.100.5 | 5 | | 13 | 95 | 1.8 | T | |
| R06.100.6 | 6 | | 8.5 | 80 | 2.9 | V | |
| R06.100.7 | 7 | | 6.5 | 80 | 3.5 | X | |
| R06.100.8 | 8 | | 5.3 | 75 | 4.8 | 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 I²t 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 | - | - | 5.0 sec max |
| 1~5A | 4.0 hour min | 1.0 sec-60.0sec | 5.0 sec max | - |
| 6~7A | 4.0 hour min | 1.0 sec-60.0sec | - | - |
| 8A | 4.0 hour min | - | 5.0 sec max | - |



Installation Recommendations

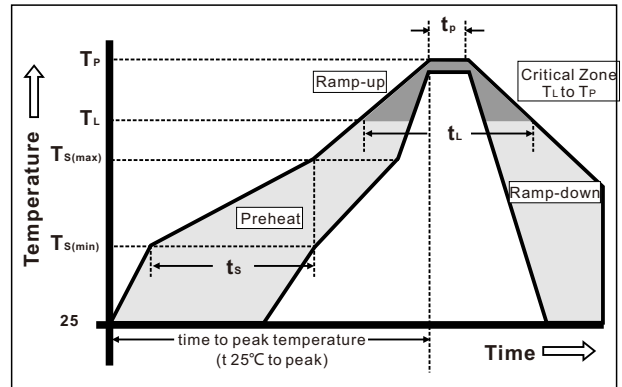
1 Wave Soldering Parameters

| Reflow Condition | | 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 (T_L) (Liquidus) | 217°C |
| | - Temperature (t_L) | 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 |

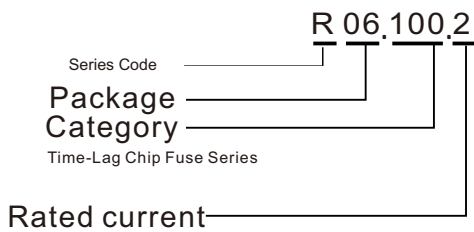
Solder Pot Temperature: 260°C max
 Solder Dwell Time: 10 Seconds max

2 Hand-Solder Parameters

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



Part Numbering System

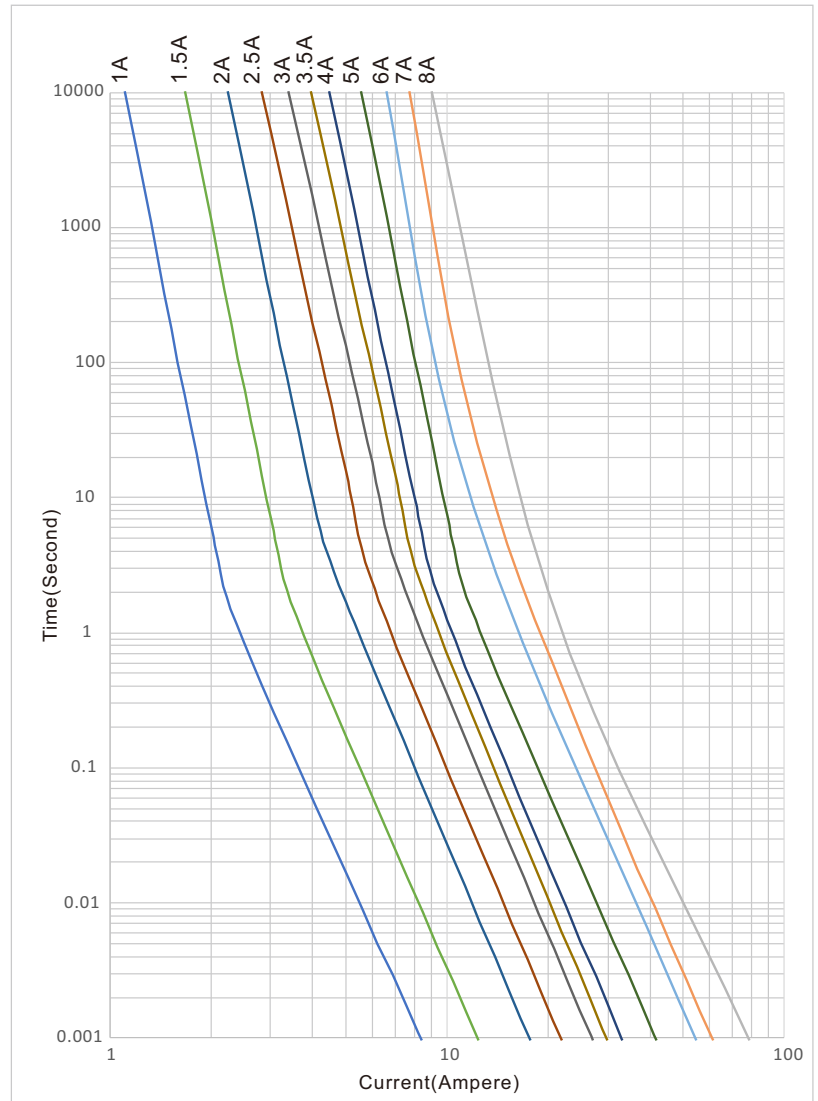
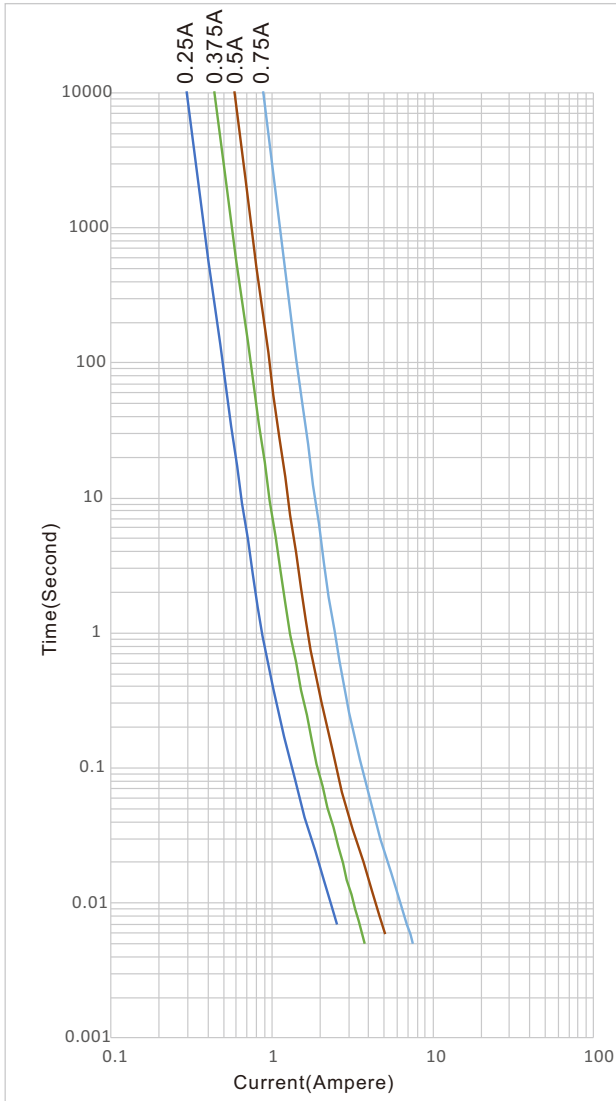


Product Characteristics

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



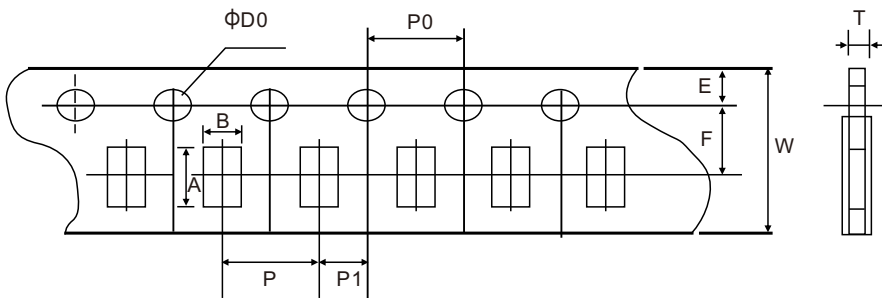
Time Current Curve



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)