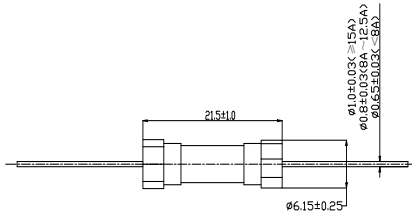
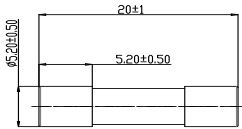


# 513 Fast-Acting Miniature Fuse



Dimensions (unit: mm)



## Main Characteristics

Axial miniature fuse; Fast-Acting

## Standard

UL248-14

## Materials

Tube: Ceramic Tube

End Caps: Silver plated copper

## Operating Temperature

-55°C to +125°C

## Storage Conditions

+10°C to +60°C

Relative humidity: ≤75% yearly average

Without dew, maximum 30 days at 95%

## Vibration Resistance

120 cycles in 1 direction at 1 min. each

10-55Hz, 3 directions(X, Y, Z) in total

According to MIL-STD-202 Method 201A

## Soldering Parameters

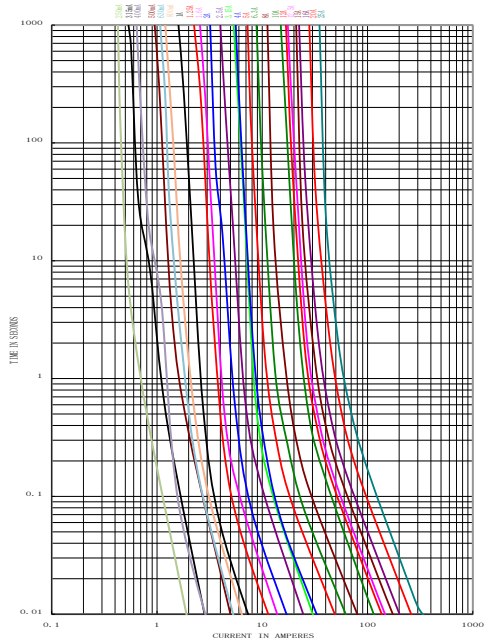
260°C. ≤5 sec (Wave Soldering)

350°C. ≤3 sec (Hand Soldering)

Soldering Peak:

260°C. 10 sec. (IEC 60068-20)

Average Time Current(I-T Curves)



Time vs Current Characteristics: UL 248-14

| Rated Current | 100% | 210%   | 275%     | 400%    | 1000% |
|---------------|------|--------|----------|---------|-------|
| 0.2A~25A      | >1h  | <30min | 40ms~20s | 10ms~1s | ≤30ms |



Electrical Characteristics at 25°C

| Amp Code | Rated Current | Rated Voltage | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Typical cold Resistance (mΩ) | Breaking Capacity            | Approvals |     |
|----------|---------------|---------------|---|------------------------------|------------------------------|-----------|-----|
|          |               |               |   |                              |                              | cURus     | TUV |
| 0250     | 250mA         | 300V AC/DC    | 0.019   | 11500                        | 1500A@300VAC<br>1000A@300VDC | ●         | ○   |
| 0315     | 315mA         |               | 0.062   | 7500                         |                              | ●         | ○   |
| 0400     | 400mA         |               | 0.058   | 4650                         |                              | ●         | ○   |
| 0500     | 500mA         |               | 0.247   | 1080                         |                              | ●         | ●   |
| 0630     | 630mA         |               | 0.221   | 787                          |                              | ●         | ●   |
| 0800     | 800mA         |               | 0.325   | 607                          |                              | ●         | ●   |
| 1100     | 1.00A         |               | 0.440   | 281                          |                              | ●         | ●   |
| 1125     | 1.25A         |               | 1.230   | 164                          |                              | ●         | ●   |
| 1160     | 1.60A         |               | 1.750   | 142                          |                              | ●         | ●   |
| 1200     | 2.00A         |               | 2.680   | 101                          |                              | ●         | ●   |
| 1250     | 2.50A         |               | 5.930   | 67.4                         |                              | ●         | ●   |
| 1315     | 3.15A         |               | 8.930   | 38.0                         |                              | ●         | ●   |
| 1400     | 4.00A         |               | 10.40   | 34.5                         |                              | ●         | ●   |
| 1500     | 5.00A         |               | 23.70   | 23.2                         |                              | ●         | ●   |
| 1630     | 6.30A         |               | 38.50   | 18.4                         |                              | ●         | ●   |
| 1800     | 8.00A         |               | 64.00   | 14.0                         |                              | ●         | ●   |
| 2100     | 10.00A        |               | 138.0   | 9.20                         |                              | ●         | ●   |
| 2120     | 12.00A        |               | 192.0   | 7.70                         |                              | ●         | ●   |
| 2125     | 12.50A        |               | 225.0   | 7.20                         |                              | ●         | ●   |
| 2150     | 15.00A        |               | 312.0   | 6.10                         | ●                            | ●         |     |
| 2160     | 16.00A        |               | 434.0   | 5.40                         | ●                            | ●         |     |
| 2200     | 20.00A        |               | 732.0   | 4.10                         | 750A@300VAC<br>1000A@300VDC  | ●         | ●   |
| 2250     | 25.00A        | 1106          | 3.35  |                              | ●                            | ●         |     |

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

(2) Typical pre-arcing I<sup>2</sup>t are measured at 10In current.

(3) The cURus certification by 300VAC/DC; the TUV certification only by 300VAC.

## Ordering Information

| Series | Amp Code | Supplementary Code | Qty |
|--------|----------|--------------------|-----|
| 513    |          |                    |     |