

## Performance Specification

| Model      | Marking | V <sub>max</sub><br>(V dc) | I <sub>max</sub><br>(A) | I <sub>hold</sub><br>@25°C<br>(A) | I <sub>trip</sub><br>@25°C<br>(A) | P <sub>d</sub><br>Typ.<br>(W) | Maximum Time To Trip |               | Resistance                |                          |
|------------|---------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|----------------------|---------------|---------------------------|--------------------------|
|            |         |                            |                         |                                   |                                   |                               | Current<br>(A)       | Time<br>(Sec) | R <sub>i min</sub><br>(Ω) | R <sub>1max</sub><br>(Ω) |
| 0603L010YR | 1       | 15.0                       | 35                      | 0.10                              | 0.30                              | 0.5                           | 0.5                  | 1.00          | 0.900                     | 6.000                    |

V<sub>max</sub> = Maximum operating voltage device can withstand without damage at rated current (I<sub>max</sub>).

I<sub>max</sub> = Maximum fault current device can withstand without damage at rated voltage (V<sub>max</sub>).

I<sub>hold</sub> = Hold Current. Maximum current device will not trip in 25°C still air.

I<sub>trip</sub> = Trip Current. Minimum current at which the device will always trip in 25°C still air.

P<sub>d</sub> = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

R<sub>i min/max</sub> = Minimum/Maximum device resistance prior to tripping at 25°C.

R<sub>1max</sub> = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

## Environmental Specifications

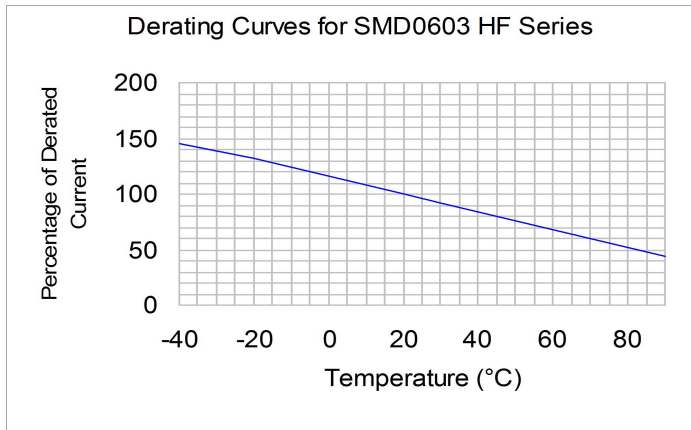
| Test                    | 條件                          | 符合條件               |
|-------------------------|-----------------------------|--------------------|
| Passive aging           | +85°C, 1000 hrs.            | I HOLD/I TRIP PASS |
| Humidity aging          | +85°C, 85% R.H. , 168 hours | I HOLD/I TRIP PASS |
| Thermal shock           | +85°C to -40°C, 20 times    | I HOLD/I TRIP PASS |
| Resistance to solvent   | MIL-STD-202,Method 215      | 电阻不變化              |
| Vibration               | MIL-STD-202,Method 201      | 电阻不變化              |
| 操作條件環境: - 40 ° C~+85° C |                             |                    |
| 在跳閘狀態下產品的表面最高溫度為125° C  |                             |                    |

## Thermal Derating Chart

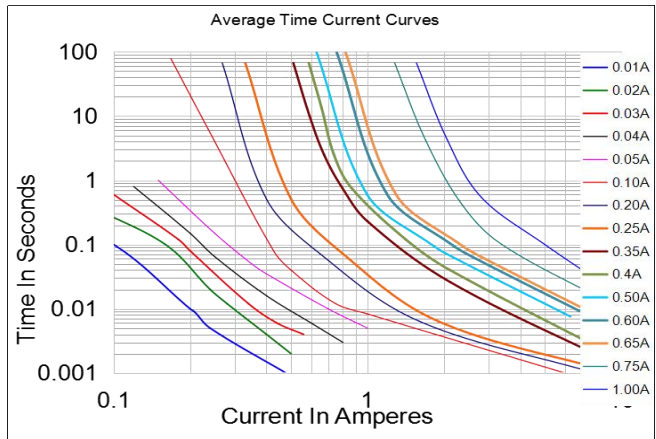
Recommended Hold Current(A) at Ambient Temperature(°C)

| Model      | Ambient Operation Temperature |       |      |      |      |      |      |      |      |
|------------|-------------------------------|-------|------|------|------|------|------|------|------|
|            | -40°C                         | -20°C | 0°C  | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| 0603L010YR | 0.13                          | 0.12  | 0.11 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |

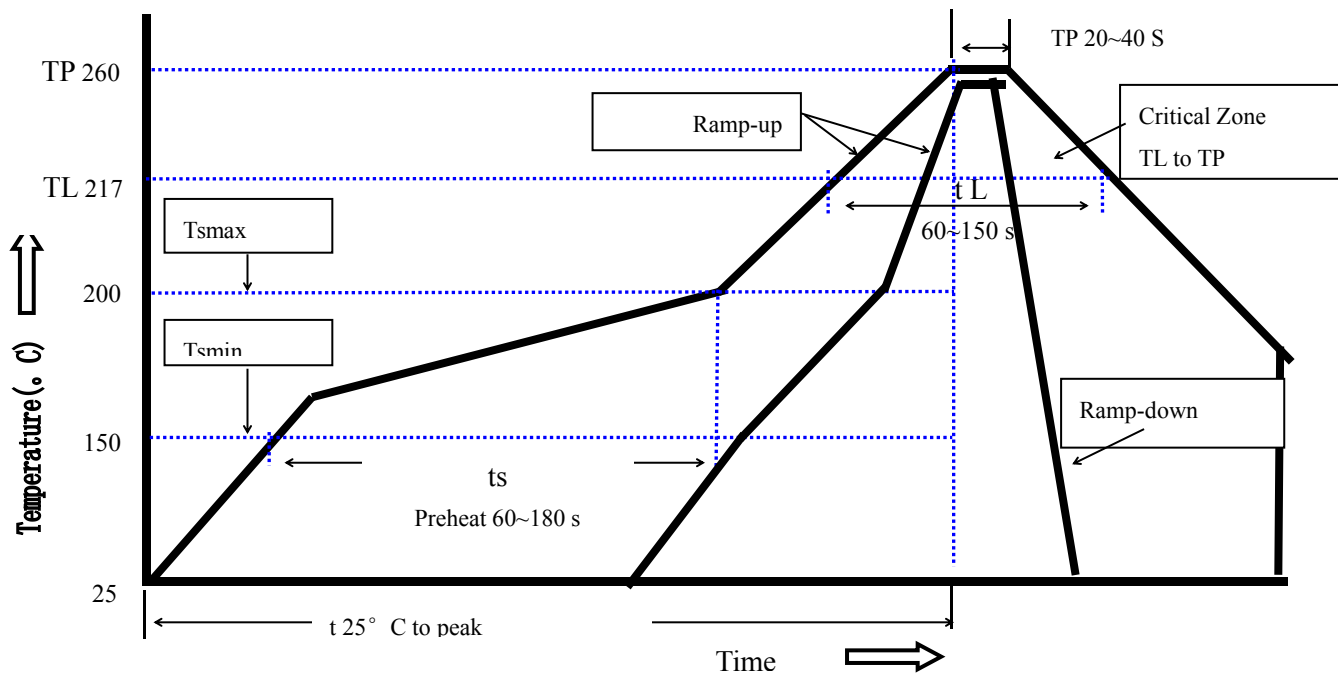
### Thermal Derating Curve



### Average Time-Current Curve



### Soldering Parameters



|                                     |                  |
|-------------------------------------|------------------|
| Profile Feature                     | Pb-Free Assembly |
| Average Ramp-Up Rate(Ts max to T p) | 3°C/second max.  |
| Preheat                             |                  |
| -Temperature Min(Ts min)            | 150°C            |
| -Temperature Max(Ts max)            | 200°C            |
| -Time(Ts min to Ts max)             | 60~180 seconds   |
| Time maintained above:              |                  |
| -Temperature(TL)                    | 217°C            |

|                               |                    |
|-------------------------------|--------------------|
| -Time(tL)                     | 60~150 seconds     |
| Peak Temperature(Tp)          | 260°C              |
| Ramp-Down Rate                | 6°C/second max.    |
| Time 25°C to Peak Temperature | 8 minutes max      |
| Storage Condition             | 0°C~30°C,30%-60%RH |

Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free

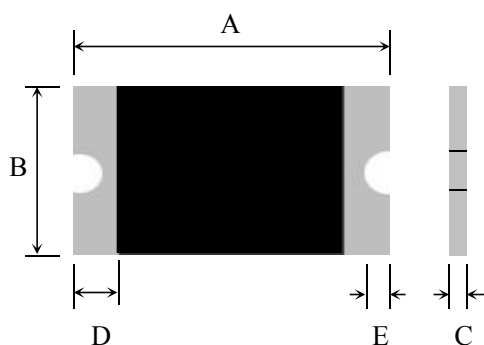
Recommended maximum paste thickness is 0.25mm

Devices can be cleaned using standard industry methods and solvents.

Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements

## Physical Dimensions(mm.)



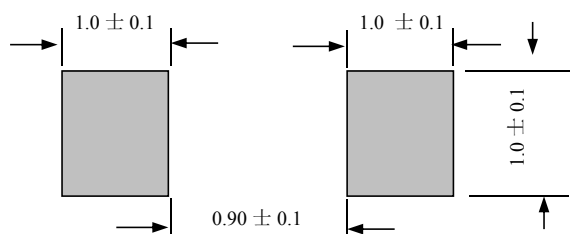
| 型號         | A    |      | B    |      | C    |      | D    | E    |
|------------|------|------|------|------|------|------|------|------|
|            | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Min. |
| 0603L010YR | 1.45 | 1.85 | 0.65 | 1.05 | 0.40 | 1.00 | 0.15 | 0.10 |

### Termination Pad Characteristics

Terminal pad materials: Tin-plated Nickel-Copper

Terminal pad solder ability: Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

## Recommended Pad Layout (mm.)



注：在此印锡面积条件下，推荐钢网厚度为 $\geq 0.12\text{MM}$ (钢网厚度不够要增大刷锡面积)

## Packaging Quantity

| Part Number | Quantity       |
|-------------|----------------|
| 0603L010YR  | 4,000 pcs/reel |

Tape & reel packaging per EIA481-1

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