

KT6-1100SMDA

Surface-Mount Low Resistance PTC Device
Rev Letter: A/0
Rev Date: 2017-12-7



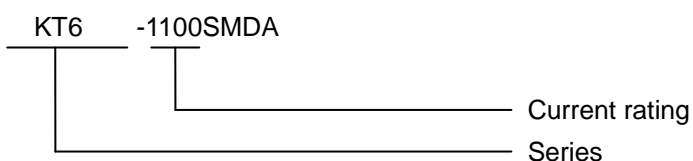
Feature

- Resettable overcurrent protection
- ROHS compliant
- Small size of 0603
- Fast time-to-trip
- Small footprint
- Low resistance

Application

- Computer
- Battery
- Mobile phones
- Industrial controls
- Automotive
- Portable electronics
- Multimedia
- Game machines
- Telephony and broadband

Part Number



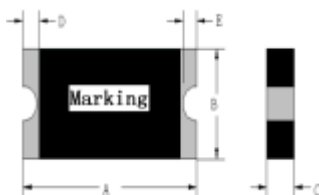
Typical Ratings and Characteristics

- Maximum Operating Voltage: 6Vdc
- Maximum Interrupt Current: 40A

| HOLD CURRENT & TRIP CURRENT (AMPS) | | | | | | TIME-TO-TRIP (SECONDS) | MINIMUM RESISTANCE (OHMS) | ONE HOUR POST REFLOW RESISTANCE (OHMS) | TRIPPED STATE POWER DISSIPATION (WATTS) |
|------------------------------------|------|------|------|------|------|---------------------------|---------------------------------|--|---|
| 0°C | | 25°C | | 60°C | | 25°C, 1.8A | 25°C | 25°C | 25°C, 6V |
| HOLD | TRIP | HOLD | TRIP | HOLD | TRIP | MAX | MIN | MAX | MAX |
| 1.3 | 4.5 | 1.1 | 2.2 | 0.4 | 1.2 | 60 | 0.018 | 0.078 | 1.2 |

Product Dimension and Foot Print

| Part number | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|--------------|-------|-------|-------|-------|-------|
| | Max. | Max. | Max. | Min. | Min. |
| KT6-1100SMDA | 2.30 | 1.50 | 0.8 | 0.15 | 0.05 |



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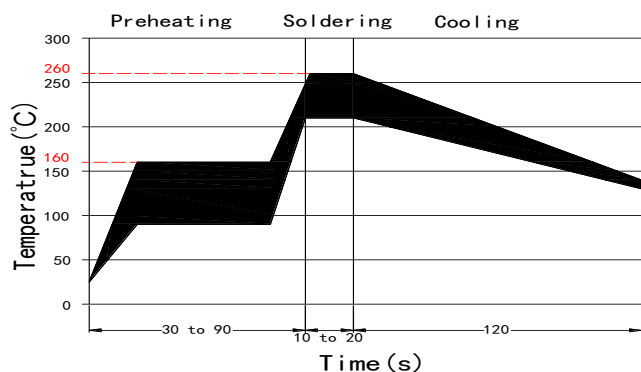
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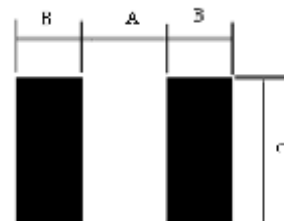
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Solder Reflow Recommendation



Reflow -curve



Footprint(mm)

* Recommended reflow methods: IR, Vapor phase oven, hot air oven, nitrogen oven.

* Devices can be cleaned using standard industry methods and solvents.

Note:

If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Caution: Operation beyond the rated voltage or current may result in rupture electrical arcing or flame

Packaging and Marking Information

| Part number | Tape & Reel Quantity | Tape spc code | Recommended Pad Layout Figures[mm(In.)] | | |
|--------------|-------------------------|------------------|---|-------------------|-------------------|
| | | | Dimension A(Nom.) | Dimension B(Nom.) | Dimension C(Nom.) |
| KT6-1100SMDA | 3500 | B | 0.60 | 1.10 | 1.00 |



WARNING:

- Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- The devices are intended for protection against occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal and mechanical procedures for electronic components.
- Operation in circuit with a large inductance can generate a circuit voltage ($L di/dt$) above the rated voltage of the PPTC device.

| Prepare | Approval | Accept |
|---------|----------|--------|
| | | |