

# JK-nSMD020-30 PPTC DEVICES Part Number: Q/JKTD-30-020



Solder reflow conditions

Time (t<sub>L</sub>)

Time (tp)

Ramp down rate

Peak/Classification temperature (Tp)

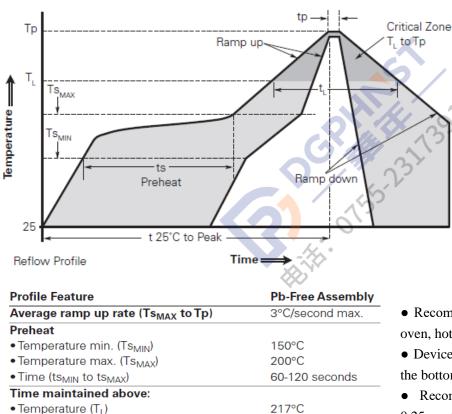
Time 25°C to peak temperature

Time within 5°C of actual peak temperature

### Edition: A0

Page No: 2 OF 3





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

• Devices are not designed to be wave soldered to the bottom side of the board.

• Recommended maximum paste thickness is 0.25mm (0.010inch).

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

• Soldering temprature profile meets RoHs leadfree process.

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

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

60-150 seconds

30 seconds max.

3°C/second max.

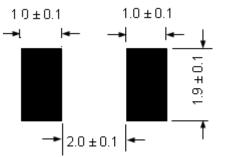
8 minutes max.

260°C

## JK-nSMD020-30 PPTC DEVICES Part Number: Q/JKTD-30-020

Pb RoHS

#### Recommended pad layout (mm)



#### WARNING

• Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

• PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.

• Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.

· Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC.

 $\cdot$  Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

 $\cdot$  Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices.PPTC SMD can be cleaned by standard methods.

 $\cdot$  Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profilecould negatively impact solderability performance of our devices.

Edition: AO

Page No: 3 OF 3

