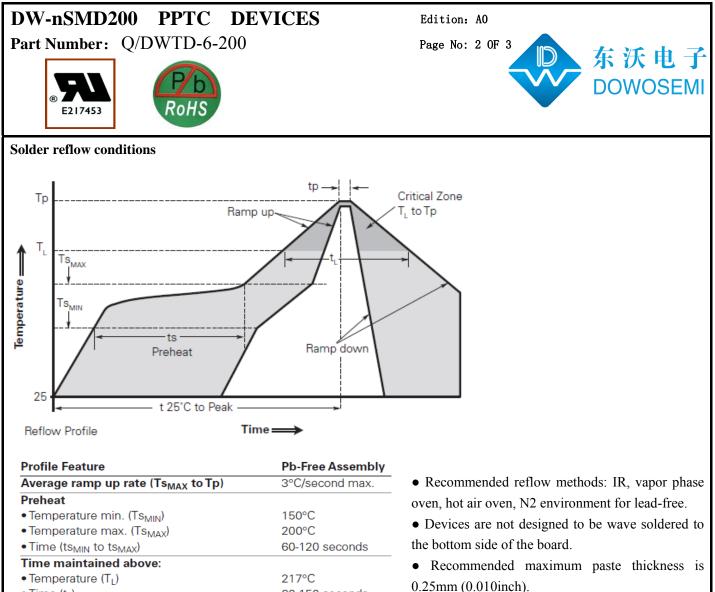
## **DW-nSMD200 PPTC DEVICES** Edition: AO Part Number: Q/DWTD-6-200 Page No: 1 OF 3 东沃电子 DOWOSEMI F217453 A Terminal pad materials : Tin-Plated Nickle-copper Terminal pad solderability : Meets EIA specification JΚ В RS 186-9E and ANSI/J-STD-002 Category 3. Marking : JK=1206(200) D Ε С Table1 :DIMENTION(Unit : mm) В С D А Е Model Marking Min. Max. Min. Max. Min. Max Min. Min. DW-nSMD200 JK 3.00 3.50 1.50 1.80 1.70 0.70 0.15 0.10 Table2 : PERFORMANCE RATINGS: Maximum Resistance Ihold Itrip Pd Time To Trip V<sub>max</sub> I<sub>max</sub> @25°C Model @25°C Typ (Vdc) (A) Current Time Rimin Ri<sub>tvp</sub> R1<sub>max</sub> (W) (A) (A) (A) (Sec) **(**Ω**) (**Ω**)** (Ω) DW-nSMD200 6.0 100 2.00 3.50 0.8 8.0 1.50 0.018 ----0.080 Table3:Test Conditons and Standards Test Conditon Item Standard $0.018 \sim 0.080 \Omega$ Initial Resistance 25℃ $I_{\rm H}$ 25°C, 2.00A, 60min No Trip T<sub>trip</sub> 25℃, 8.0A ≤1.50s Trip endurance 6.0V, 100A, 1hr No arcing or burning Operating Temperature: -40℃ TO 85℃ Packaging: Bulk ,3500pcs per bag HANGZHOU DONGWO ELECTRONIC TECHNOLOGY CO.,LTD. No.525, XIXI ROAD, XIHU DISTRICT, HANGZHOU CITY, ZHEJIANG PROVINCE, CHINA TEL: 0571-87006810 FAX: 0571-87671286 Web Site: www.dowosemi.cn E-mail:sales@dowosemi.com

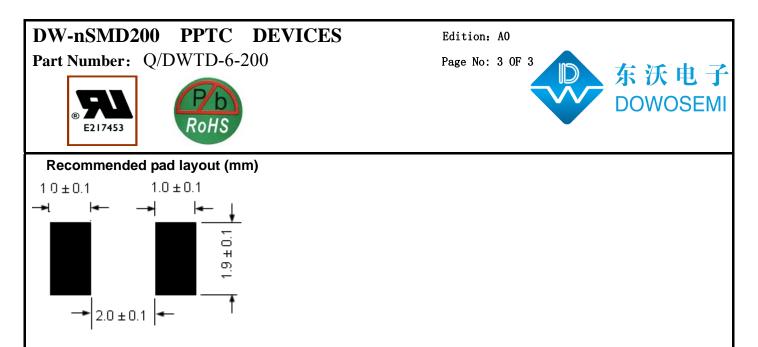


- Temperature (T<sub>L</sub>)
   Time (t<sub>L</sub>)
   60-150 seconds
   Peak/Classification temperature (Tp)
   260°C
   Time within 5°C of actual peak temperature
   Time (tp)
   30 seconds max.
   Ramp down rate
   3°C/second max.
   Time 25°C to peak temperature
   8 minutes max.
- Devices can be cleaned using standard industry methods and solvents.
  Soldering temperature profile mosts Polla loadfree
- 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

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## Storage

The maximum ambient temperature shall not exceed  $38^{\circ}$ C. Storage temperatures higher than  $38^{\circ}$ C could result in the deformation of packaging materials. The maximum relative humidity recommended for storage is 60%. High humidity with high temperature can accelerate the oxidation of the solder plating on the termination and reduce the solderability of the components. Sealed plastic bags with desiccant shall be used to reduce the oxidation of the termination and shall only be opened prior to use. The products shall not be stored in areas where harmful gases containing sulfur or chlorine are present

## WARNING

 $\cdot$  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.

· 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.

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