

1. Description : Detector Switch(Push Switch).

2. Part No : DS-01.

3. Circuit : SPST , Normal Open.

4. Rating : 1mA @ 5VDC.

5. Operating Temperature : -20°C ~ +70°C .

6. Mechanical Performace :

6.1 Dimensions : Please see the item14.

6.2 Operating Force : 35gf (Max).

6.3 Soldering Heat Resistance :

6.3.1 IR Reflow : 260°C ± 5°C , in 5 seconds (Max).

6.3.2 Manual : 300°C ± 5°C , in 3 seconds (Max).

7. Electronic Performance :

7.1 Contact Resistance : 1Ω (Max) .

7.2 Insulation Resistance : More than 100MΩ at 100VDC.

7.3 Withstanding Voltage : AC 100V , 1 Minute.

8. Environmental Performance :

8.1 Heat : 75±2°C for 96 hours and then cooled in room temperature and humidity for an hour. The test results should meet the requirements of item 6&7.

8.2 Cold : -40±2°C for 96 hours and then cooled in room temperature and humidity for an hour. The test results should meet the requirements of item 6&7.

8.3 Humidity : 40±2°C and 90~95%RH for 96 hours and then cooled in room temperature and humidity for an hour. The test results should meet the requirements of item 6&7.

9. Durability :

9.1 Operating Life With Load : 100,000 cycles(Min).

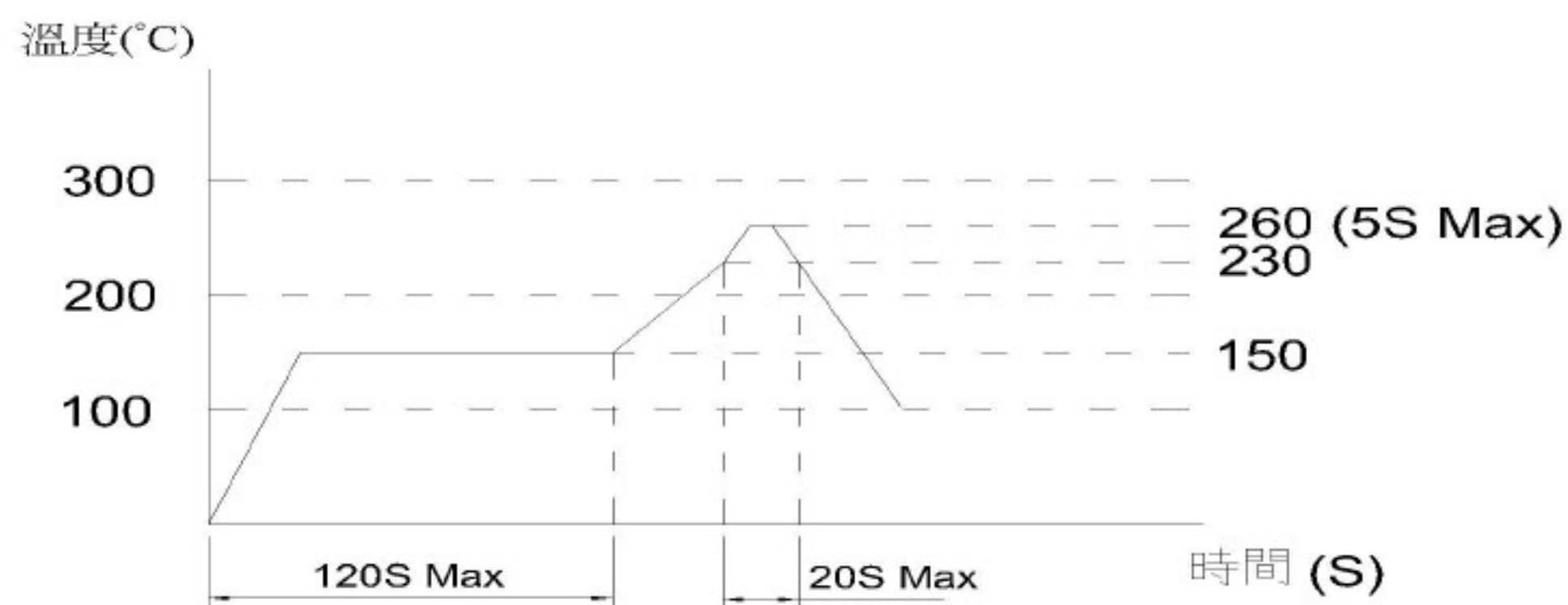
9.2 Vibration proof : The switch should meet the requirements of item 6&7 after the switch is fixed in a chamber under below conditions.

9.2.1 Vibration frequency range : 10~55Hz.

9.2.2 Total amplitude : 1.5mm.



## 10.Reflow Soldering Curve :



## 11.Notes :

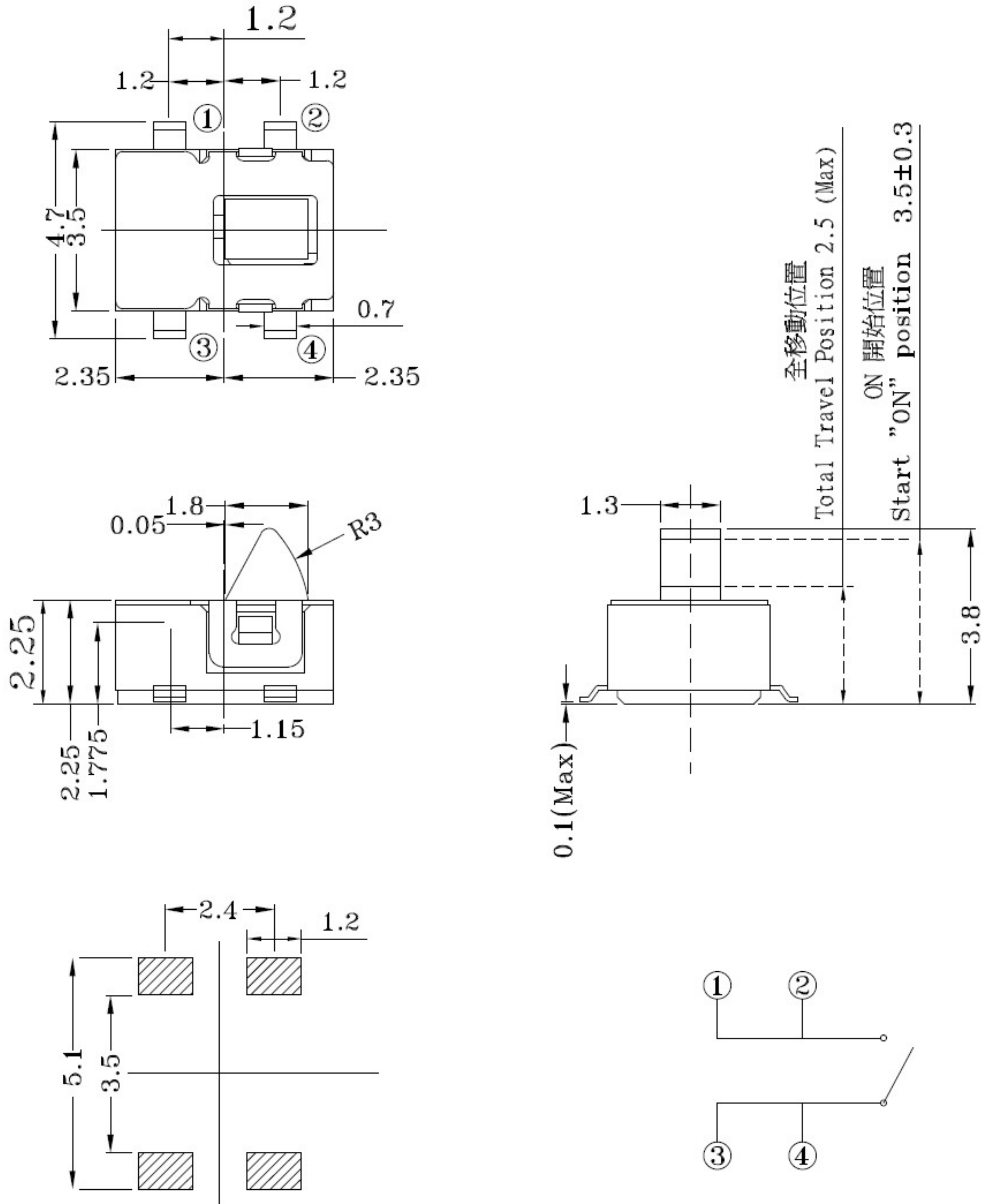
- 11.1 The switch is not designed for waterproof, do not try to clean the switch with a solvent.
- 11.2 Safeguard the switch assembly against flux penetration.
- 11.3 During the soldering process, please keep the switch with "OFF" status.
- 11.4 This switch is RoHS compliant.

## 12.Materials :

Description	Material	Remarks
Housing	Nylon	
Knob	Nylon	
Terminal	Bronze Phosphor	Ag-Plated
Cover	Stainless steel	
Spring	Bronze Phosphor	Ag-Plated



## 13. Drawing :



PCB Mounting Diagram

Circuit Diagram