KSD-01F Temperature Control Switch Fire Power Supply Overheat Protector JUC-31F Temperature Control Thermal Protector

Our Product Introduction

Basic Information

- Place of Origin: Dong Guan China
- Brand Name: lin kun
- Certification: ROHS,UL
- Model Number: KSD01F
- Minimum Order Quantity: 5000 PCS
- Price: 0.045 USD/ PCS
- Packaging Details: Bulk,500pcs per polybag
- Delivery Time: 7 workdays
- Payment Terms: T/T
- Supply Ability: 20,000,000PCS per week

Product Specification

- Type: Temperature Switch
- Application: Electronic
- Size: Miniature
- Voltage Characteristics: Safe Voltage
- Shape: SMD Type
- Fusing Speed: FF/Extra Fast
- Implementation Standard: National Standard
- Automatic Reset Function: Yes
- Maximum Voltage: 250 (V)
- Maximum Current: 1.5 (A)
- Holding Current: 1.5 (A)
- Operation Temperature: 0~130 (°C)
- Temperature Control Range: 0~130 (°C)
- Application Area: Military Industry/aerospace

More Images

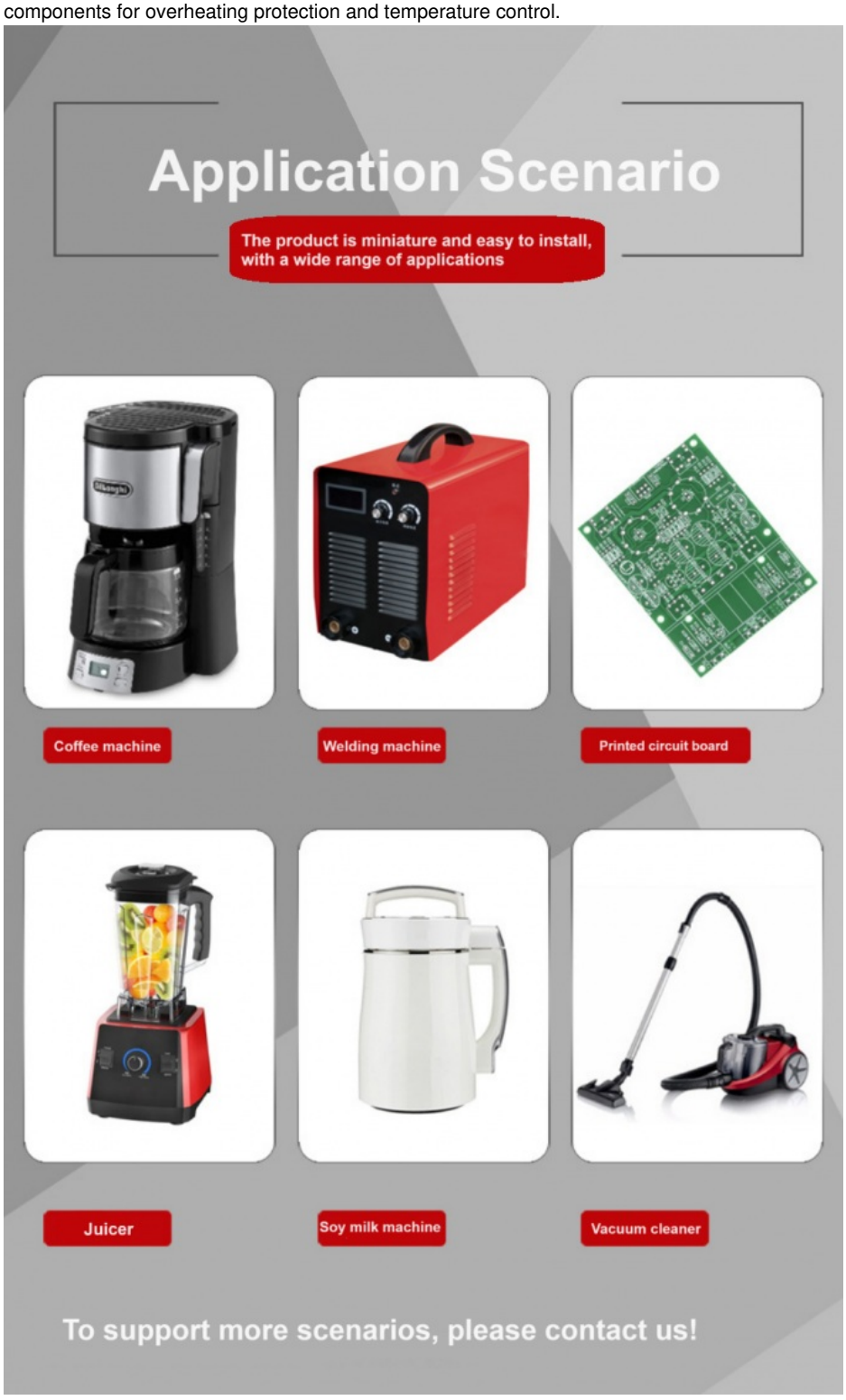
Product Description

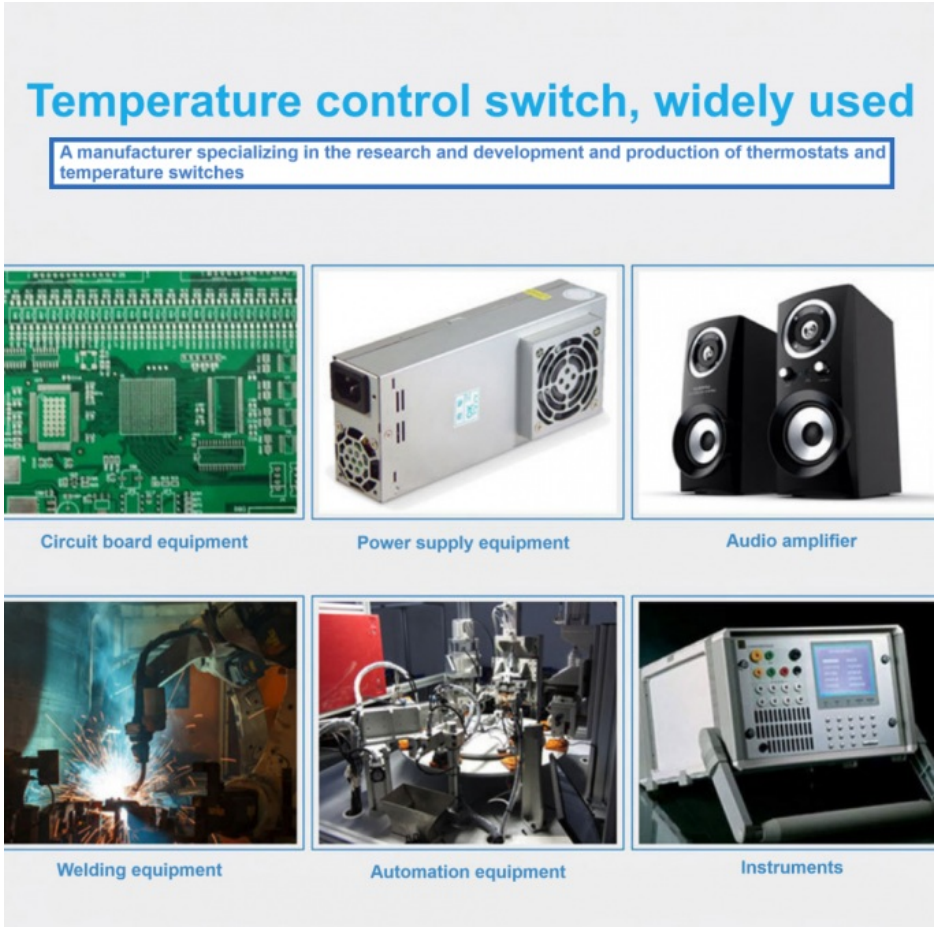
KSD-01F temperature control switch thermal protector thermostat

KSD-01F is a contact temperature-sensing snap-action plastic-sealed thermostat. It has the advantages of small size, easy installation, sensitive temperature sensing, fast response speed, stable working performance and long service life, less radio interference, safe and reliable. It is composed of highly sensitive bimetallic elements, moving contacts, static contacts, reeds, fixed base plates, wiring pins and other plastic seals.

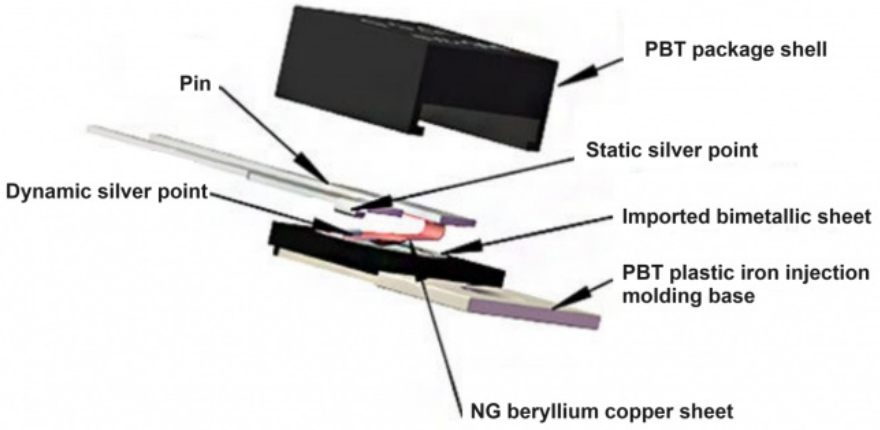
1 Product Application

This product is widely used in communication power supply, switching power supply, module power supply, audio amplifier equipment, various chargers, rectifier welding equipment, instruments and various high-power electronic and electrical components for overheating protection and temperature control.



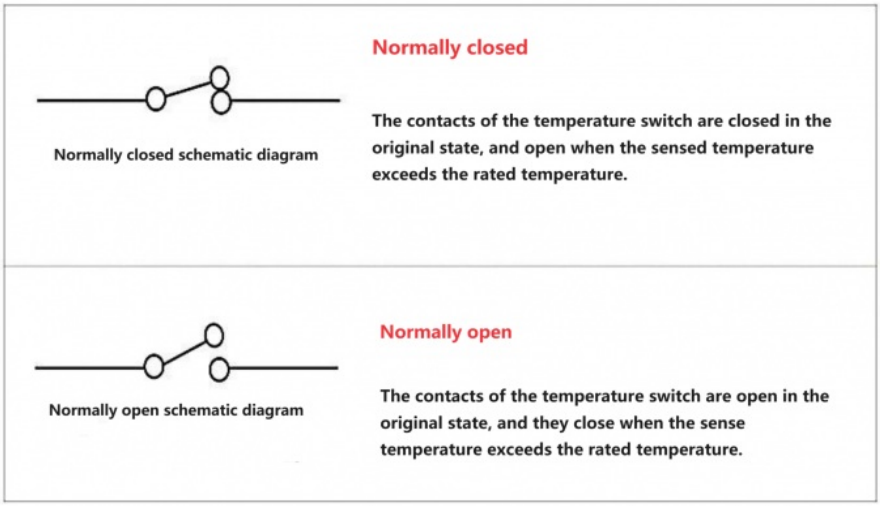


2 Appearance and structure:



JUC-31F structure diagram

How to distinguish between normally closed and normally open



When working, the bimetallic element is in a free state, the moving contact and the static contact are closed, and the circuit is turned on. When the electrical appliance is heated due to a fault and the temperature rises to the rated action temperature of the product, the bimetallic element generates internal stress due to heat and quickly moves, pushing the moving contact open, disconnecting the contact, cutting off the power supply, and stopping the electrical appliance from working, thereby playing an overheating protection role. When the temperature of the protected electrical appliance drops to the rated reset temperature of the product, the bimetallic element returns to its original state, the moving contact is closed, and the electrical appliance resumes working (the opposite is true for the normally open type).

3. Performance

3.1 Technical parameters

1. Test method:
Install the thermostat on the test fixture and place it in the test area for testing. Use air as the heat conduction medium and place a thermometer or temperature sensor in the temperature measurement area. When the temperature enters the temperature range from the lower limit of the product action and recovery temperature minus 3K to the upper limit of the product action and recovery temperature plus 3K, the temperature rise and fall rate should be no more than 1K/min. During this period, the air in the temperature measurement area must be fully stirred to make the temperature distribution uniform: the temperature uniformity in the temperature measurement area is within 0.4K.
2. Resistance between terminals:
Initial value: ≤50mQ;
After life: ≤500mQ;
Test load: DC 6V, 10mA.
3. Insulation resistance:
Under standard atmospheric conditions, use a DC500V insulation resistance meter to test with a rated voltage greater than or equal to 100mΩ;
4. Electrical strength:
Under standard atmospheric conditions, use an AC voltage of 1800V 50Hz to apply between the lead-out terminal and the ground for 1 minute, without breakdown, arcing, flashover, etc.
5. Ambient operating temperature:
-25℃ +180℃
6. Grounding method:
Connect the outer metal plate of the temperature controller to the grounding metal of the equipment.

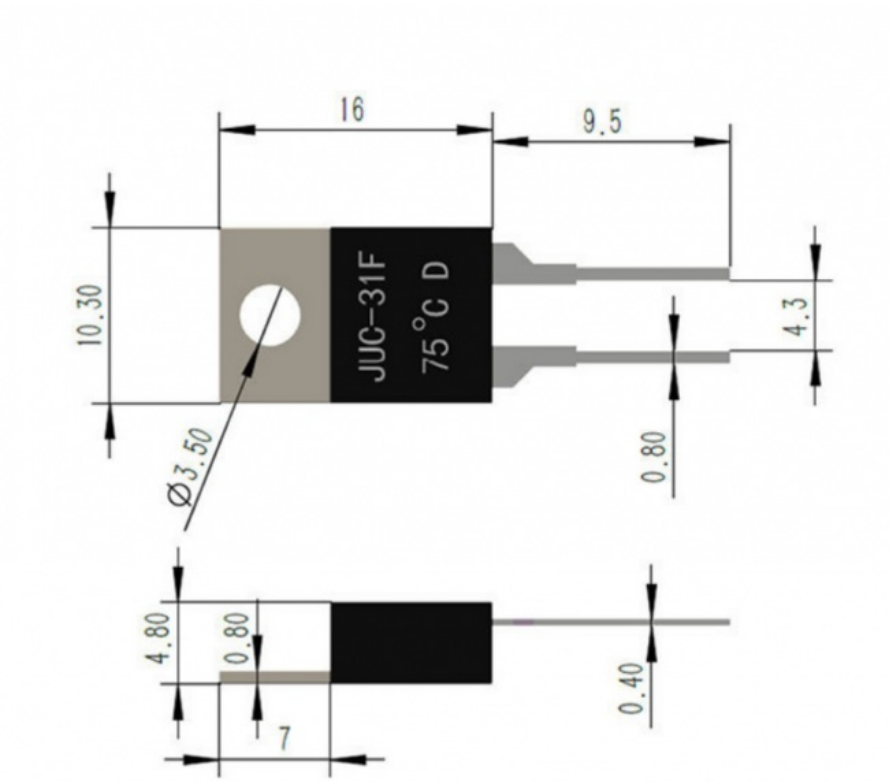
3.2

Action temperature and recovery temperature table unit: ℃ (below room temperature)		
Action temperature± 5°C	Maximum recovery temperature	Higher than the minimum action temperature
0	20	5
5	25	5
10	30	5
15	35	5

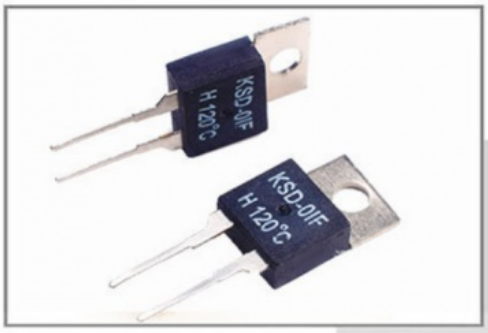
Action temperature and recovery temperature table unit: ℃ (normal temperature)		
Action temperature± 5°C	Maximum recovery temperature	Higher than the minimum action temperature
20	0	5
25	5	5
30	10	5
35	15	5
40	20	5
45	25	5
50	30	5
55	30	5
60	35	5
65	40	5

70	45	6
75	45	6
80	50	6
85	55	6
90	60	6
95	60	6
100	65	7
105	70	7
110	75	7
……	……	……
130	90	9

3.3 Dimensions:



Choose us, many advantages

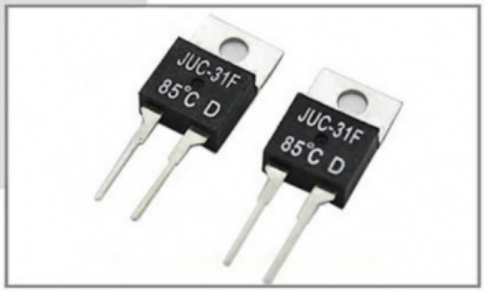


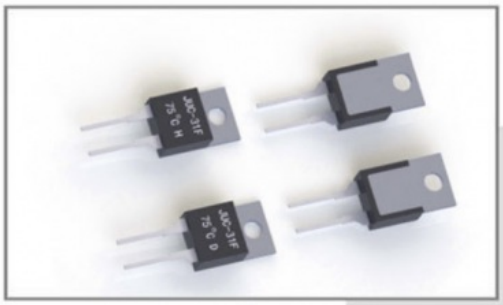
1 Durability

Using high-quality production materials for processing and production, the product has a long service life

2 Stability

Standardized production process and quality inspection products have consistent specifications





3 Diversity

Various complex designs can be made according to customer needs

4 Rapid production

Advanced production equipment allows you to get your goods quickly

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