1. Features

This bimetal disc thermostat is designed for surface or air sensing for printed circuits and heat sinks and is available in normally open or normally closed configuration. Other features include:

- Temperature range 0C – 130C
- Rohs compliant per EU directive 2002/95/EC
- TO-220 international electronic package standard
- 100K cycles rating
- Designed for surface or air sensing for printed circuits and heat sinks
- Available in normally open / normally closed configuration

2. Definition

The KSD-01F series is a RoHs compliant, snap action SPST bimetallic thermostat which provides accurate sensing capabilities in a single device. The KSD-01F Series confirms to IEP standards Y220/TO220. Therefore they may be automatically placed and soldered in a pick/place applications, ideal for printed circuit boards

3. Application

- Power supplies
- Medical devices
- Test equipment
- Refrigeration
- HVAC
- PCB

4. Specifications

1). Contact type: normally closed, or normally open

2). Electrical rating: AC 250V 2A ,AC 120V 2A; DC48V 1A; DC 5V 0.02A

3). Operating temperature range: 0~130℃,error ±3℃ ±5℃

4). Reset temperature (difference value with operating temp.): 8~35℃

5). Environment temperature: -55~+180℃

6). Overheating temperature:250℃/moment

7). Contact resistance: ≤ 50mΩ

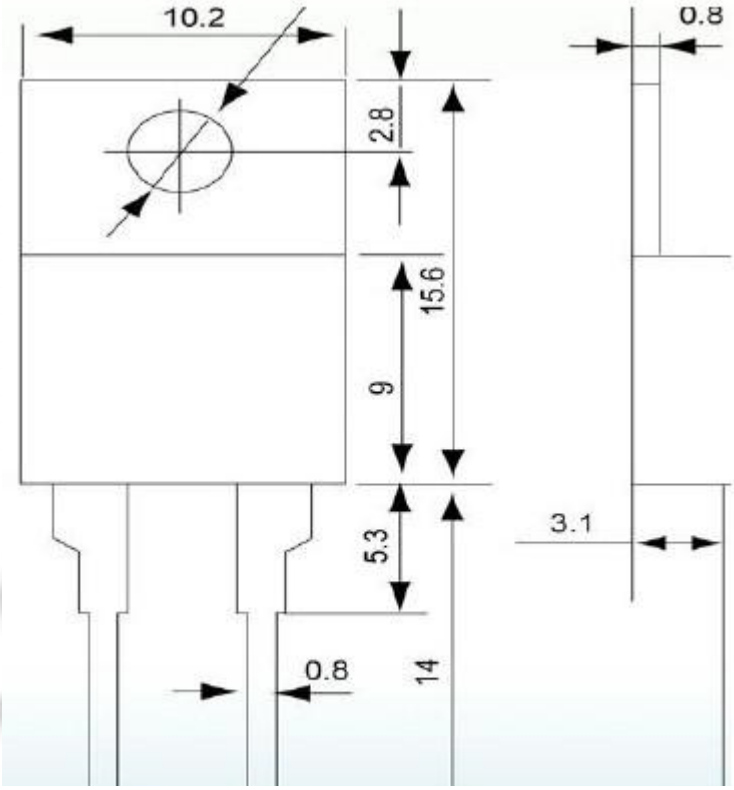
8). Insulation resistance : ≥ 100 mΩ

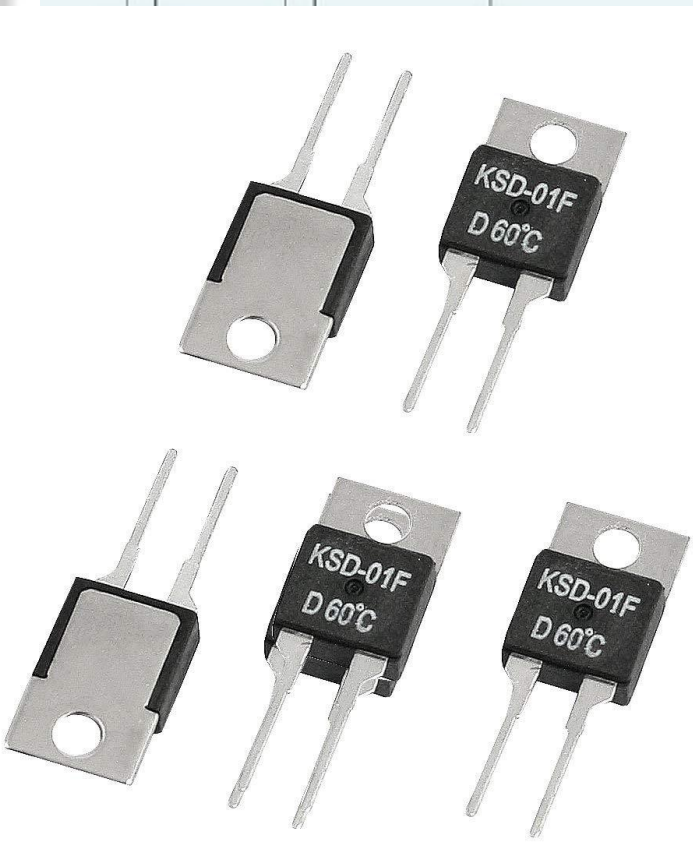
9). Dielectric withstand voltage: ≥1500V

10). Weight < 2g

11). Life cycles: ≥10,000 times

5. Dimension (mm)





6. Temperature Calibration Table

Temp	Operating temp	Reset temp	Temp	Operating temp	Reset temp
15C	15±3C	≥5C	20C	20±3C	≥10C
30C	30±3C	≥20C	80C	80±5C	55±15C
35C	35±3.5C	≥25C	85C	85±5C	60±15C
40C	40±4C	≥30C	90C	90±5C	65±15C
45C	45±4.5C	≥33C	95C	95±5C	70±15C
50C	50±5C	≥35C	100C	100±5C	70±15C
55C	55±5C	42±6C	105C	105±5C	75±15C
60C	60±5C	45±8C	110C	110±5C	75±15C
65C	65±5C	48±10C	115C	115±5C	80±15C
70C	70±5C	50±12C	120C	120±5C	85±15C
75C	75±5C	53±14C	125C	125±5C	95±15C
30C	30±3C	≥20C	80C	80±5C	55±15C