

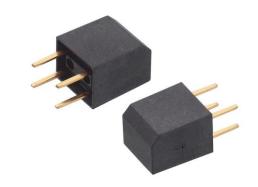
| Item No. | SVBS061100 | Description | Ball-Contact | Version | 9 |
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FUNCTIONS

Omni-directional Vibration Detecting

APPLICATIONS

- Wake up systems for power saving, Such like remote controllers
- 2. GPS starting system
- 3. Alarm system
- 4. Anti-theft, Anti-tampered devices.
- 5. Automatically flashing for bike lamp
- 6. Subsidiary night lamp flashing for car
- 7. Outsole of sporting shoes flashing
- 8. Toys











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FEATURES

- 1. Both suitable for horizontal and vertical PCB.
- 2. The VBS061100 acts like a normally closed switch which chatters open and closed as it is tilted or vibrated. Note that the SVBS061100 is not guaranteed to be closed --- occasionally the sensing mechanism may remain open when at rest. The engineer should design his or her software to look for high-to-low and low-to-high edge transitions rather than an open or closed state of the switch.
- 3. Housing made of high insulation plastic material, free from electric conduction and rust problem.
- 4. Gold-plated ball and terminals, low possibility of oxidization.
- 5. All plastic materials subject to industrial purpose, resist high temperature and meet fireproof function.
- 6. Simple ON and OFF signals, easy for design.
- 7. RoHS compliance, an ideal substitute for mercury switch.
- 8. A more economical vibration detection option than IC design solution.
- 9. All made in Taiwan and examined before shipment.









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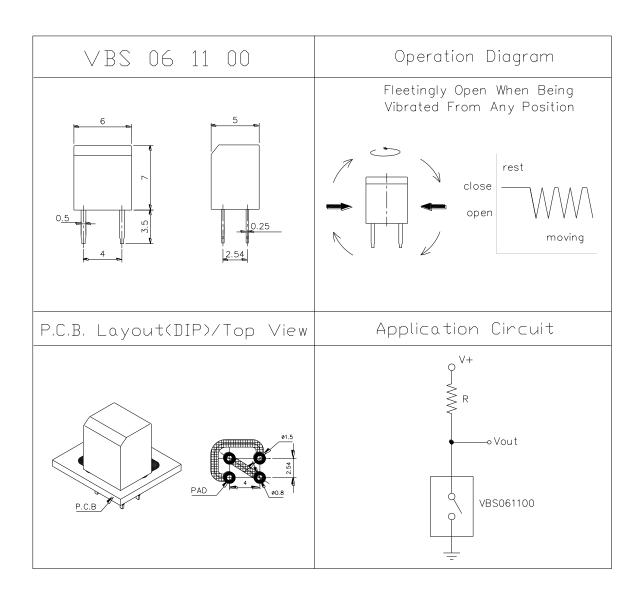




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DIMENSIONS / OPERATION / P.C.B. LAYOUT (Unit: mm, Tolerance: ±0.25mm)

Fig. 1















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Current/Voltage Suggested

| Input Current (mA) | Operating Voltage (V) | Condition |
|--------------------|-----------------------|-----------|
| 1.0 | 5 | |

ELECTRICAL CHARACTERISTICS

| 1. | Contact Rating | 10mA, 5VDC | |
|----|-----------------------|---------------------------|--|
| 2. | Operation Diagram | Refer to Fig .1 | |
| 3. | Insulation Resistance | 10 MΩ min. at 100VDC | |
| 4. | Dielectric Strength | 500 VDC min. for 1 minute | |
| 5. | Capacitance | 5 pF max. | |
| 6. | Conductive Rate | 90% min. | |









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RELIABLE TEST ITEMS

Reliable Test for SRBS061100

| | Test Item | Contents | |
|---|-----------------------|--------------------------------------|--|
| 1 | Operating Temperature | -25 °C ~ 85 °C | |
| 2 | Storage Temperature | -40°C ~ 85°C | |
| 3 | Humidity | 40 °C / 95 %RH | |
| 4 | Mechanical Life | 2 Hz · horizontal 1,000,000 times | |
| 5 | Electrical Life | 100,000 times | |

SOLDERING CONDITION

Following soldering conditions are for reference only, please use soldering information that solder paste manufacturer recommends.

| Condition Suitable Production | Soldering Temperature | Soldering Time | Wattage of Manual Soldering | Туре |
|-------------------------------|--------------------------|------------------|--|------|
| Process | | | | |
| Wave Soldering | 260±5°C | < 5 seconds max. | - | DIP |
| Manual Soldering | 300±5℃ | < 3 seconds max. | 20W or Temperature- controlled manual soldering | DIP |









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PACKAGE

| | Part Number | Package | Quantity | Total | Dimension (mm) |
|----|---------------|-----------|-----------|------------|----------------|
| | | IC tube | 84 pcs | 84 pcs | 525L*10W*17.5H |
| 1. | 1. SVBS061100 | Inner box | 162 tubes | 13,608 pcs | 539L*130W*130H |
| | | Carton | 4 boxes | 54,432 pcs | 551L*285W*288H |

X Package shown as below for reference.













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NOTE

- 1. Suggestion for usage: For vibration usage or application, we suggest to add hysteresis for IC; if vibration is heavy, optical type of sensor switch is recommended.
- For the continued product improvement as one of the company policy, specifications may change or update without notice. The latest information can be obtained through our sales offices. Normally, all products are supplied under our standard conditions.
- 3. If buyer's products will stay in power supply for a long time which needs very high stability, optical sensor switch is strongly recommended.

PRECAUTIONS FOR USE

- If the products is intended to be used for other endurance equipment requiring higher safety and reliability such as life support system, space and aviation devices, disaster and safety system, it's necessary to make verification of conformity or contact us for the details before using.
- Do not try to clean the switch with a solvent or similar substance after the soldering process.
- 3. Use water-soluble flux may damage the switch.
- 4. Please follow the soldering instruction accordingly, otherwise might lead to defective.
- 5. Do not use switch in the environment of high humidity, because such an environment may cause the leakage current between the terminals.
- 6. Please do not exceed the rated load as there will be a risk of disabling the product function.
- 7. In the circuit, switch should not be near or directly connected with the magnetic component solder joints (for example: relays, transformers, etc.).











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