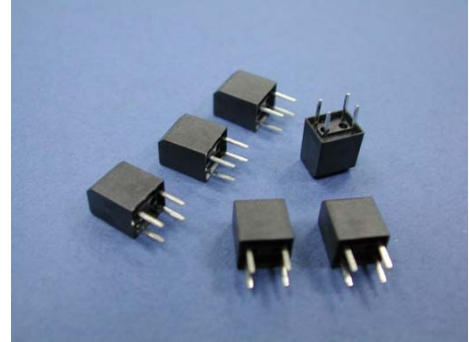


**SENSOR SWITCH**

Item.#	VBS06 Series	Description	VIBRATION SWITCH	Version	V96.0
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**● APPLICATIONS**

1. Omni-directional vibration detecting: Remote Controller, Wireless Mouse, etc., occasions that request for vibration Power ON functions.
2. Suitable to stroke signal applied such as earthquake detecting system, bicycle alarms, car alarms, and home security systems, toys, sporting shoes etc.

**● FEATURES**

1. Small size & compact space.
2. Housing made of high insulation plastic material, free from electric conduction and rust problem.
3. Terminal and balls are gold plated to enhance the life
4. All plastic material subject to industrial purpose meets with UL94V-0 grade; high temperature and fireproof function.
5. Suitable to IC trigger signal.
6. Complete replacement of mercury switch and meet with environmental protection.

**● PATENTS**

1. TAIWAN Patent NO. 204790
2. U.S.A. Patent NO. US 6,706,979 B1



## SENSOR SWITCH

Item.#	VBS06 Series	Description	VIBRATION SWITCH	Version	V96.0
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● DIMENSIONS / OPERATION / P.C.B. LAYOUT (Unit: mm, Tolerance: ±0.25mm)

<p>VBS 06 11 00</p>	<p>Fleetingly Open (OFF) When Being Vibrated From Any Position</p>	<p>P.C.B. Layout (DIP) / Top View</p>
<p>VBS 06 21 00</p>	<p>Fleetingly Open (OFF) When Being Vibrated From Any Position</p>	<p>P.C.B. Layout (SMT) / Top View</p>

● ELECTRICAL CHARACTERISTICS

1.	Contact Rating	25mA , 24VDC
2.	Contact Resistance	Initial : 5Ω max. After Life Test : 10Ω max.
3.	Switching type	Normal Close (NC)
4.	Insulation Resistance	1000MΩ min. At 100 VDC
5.	Dielectric Strength	500 VDC min. for 1 minute
6.	Capacitance	5pF max



## SENSOR SWITCH

Item.#	VBS06 Series	Description	VIBRATION SWITCH	Version	V96.0
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### ● MECHANICAL CHARACTERISTICS

1.	Temperature Range	Operating: -25°C to +85°C Storage: -40°C to +85°C
2.	Pull Force of Terminal	500 gf for 1 minute
3.	Operation Life	100,000 Cycles
4.	Conductive Rate (Switch-on Rate)	min. over 90%
5.	Humidity	95% RH, 40° C for 96 hrs.
6.	Solder ability	After flux 260±5°C for 5±0.5 seconds 95% coverage
7.	Reflow Soldering Heat for SMT type	Reflow zone 260°C±5°C for 20 seconds max

### ● BILL OF MATERIAL

1.	Housing	Glass-Fiber Liquid crystal polymer, UL 94V-0
2.	Base	Glass-Fiber Liquid crystal polymer, UL 94V-0
3.	Terminal	Copper Alloy, Gold Plated over Nickel
4.	Ball	Copper Alloy, Gold Plated over Nickel

### ● PACKAGE

	Part Number	Package	Quantity	Total	Size
1.	VBS0611	PE Bag	600 pcs	600 pcs	12.7 x 17.8 cm
		Inner Box	10 Bags	6,000 pcs	36 x 20 x 9 cm
		Carton	3 Boxes	18,000 pcs	36 x 28 x 23 cm
2.	VBS0621	Reel	700 pcs	700 pcs	30 x 30 cm
		Inner Box	2 Reels	1,400 pcs	36 x 34 x 7 cm
		Carton	4 Boxes	5,600 pcs	37 x 37 x 28 cm

\* Minimum Order Quantity: One Bag / One Reel

**SENSOR SWITCH**

Item.#	VBS06 Series	Description	VIBRATION SWITCH	Version	V96.0
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## ● NOTE

1. Suggestion Contact Rating: 5 mA.
2. Conductive Rate: To test the conductivity (Switch-on Rate) of one switch individually for 100 times, if the switch conductive 95 times, we call the “conductive rate” is 95%.
3. 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.

## ● PRECAUTIONS FOR USE

1. The product is used mainly in electronic devices such as automotive devices, visual devices, home electrical appliances, information devices and communication settings. If the products is intended to be used for other endurance equipments requiring higher safety and reliability such as life support system, space and aviations devices, disaster and safety system, it's necessary to make verification of conformity or contact us for the details before using.
2. Don't try to clean the switch with a solvent or similar substance after the soldering process.
3. The switch might be damaged if using the water-soluble flux.
4. Don't use the switch in the environment with high humidity or other bedewing possibility, as it may cause leaking among the terminals.
5. It might catch fire if the rating exceeds the specifications. Never use the switch beyond the rating.