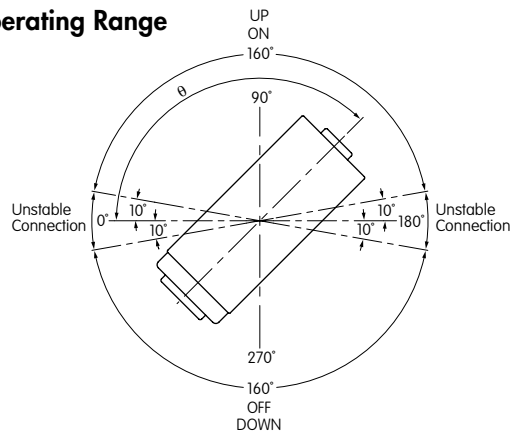
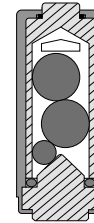


DSA SWITCH SPECIFICATIONS (CONTINUED)

Operating Range

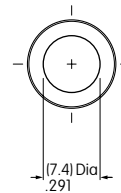
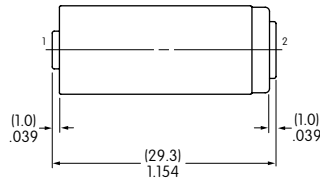
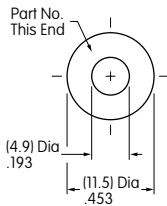


Cross Section



Allow 500ms settling time between states.

TYPICAL SWITCH DIMENSIONS



DSA01

Terminal numbers are not on the switch.

OPTIONAL ADAPTOR

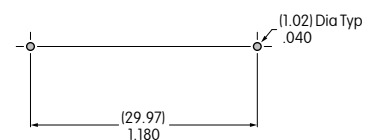
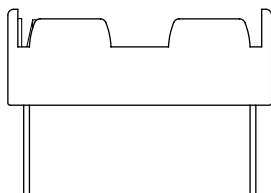
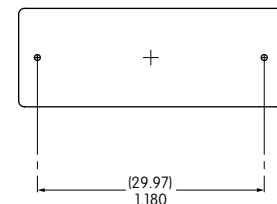
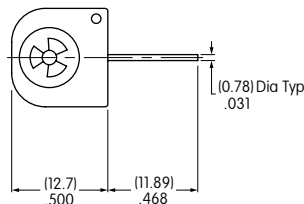
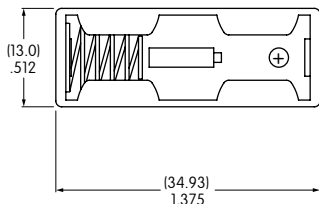


AT094  
PCB Adaptor for DSA01

**Materials:**  
Holder: Polypropylene  
Spring: Spring Steel with Nickel Plating  
PC Pins: Brass with Nickel Plating

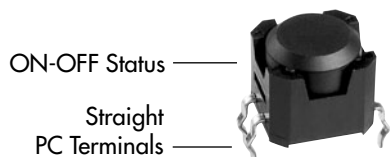


Assembled DSA Switch & Adaptor

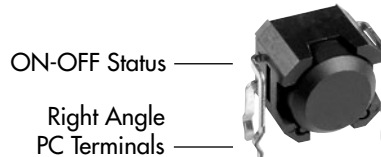


PCB Footprint

## DSB SWITCH PART NUMBERS & DESCRIPTION



**DSBA1P**



**DSBA1H**

## DSB SWITCH SPECIFICATIONS

### Absolute Maximum Ratings Temperature at 25°C

|        |                             | Symbol    | Rating | Unit |
|--------|-----------------------------|-----------|--------|------|
| Input  | Forward Current             | $I_F$     | 50     | mA   |
|        | Reverse Voltage             | $V_R$     | 5      | V    |
|        | Power Dissipation           | $P_D$     | 75     | mW   |
| Output | Collector-Emitter Voltage   | $V_{CEO}$ | 30     | V    |
|        | Emitter-Collector Voltage   | $V_{ECO}$ | 3      | V    |
|        | Collector Current           | $I_C$     | 20     | mA   |
|        | Collector Power Dissipation | $P_C$     | 50     | mW   |
|        | Total Power Dissipation     | $P_{tot}$ | 100    | mW   |

### Mechanical Specifications

|                         |   |
|-------------------------|---|
| <b>Mechanical Life:</b> | 1,000,000 operations minimum                          |
| <b>Electrical Life:</b> | 1,000,000 operations minimum using applicable circuit |

### Materials & Finishes

|                   |  |
|-------------------|--|
| <b>Housing:</b>   | Glass fiber reinforced polyamide (UL94V-0 flammability rating) |
| <b>Base:</b>      | Glass fiber reinforced polyamide (UL94V-0 flammability rating) |
| <b>Terminals:</b> | Phosphor bronze with tin plating                               |

### Environmental Specifications

|                                     |  |
|-------------------------------------|--|
| <b>Operating Temperature Range:</b> | -25°C ~ +80°C (-13°F ~ +176°F)   |
| <b>Storage Temperature Range:</b>   | -30°C ~ +85°C (-22°F ~ +185°F)   |
| <b>Humidity:</b>                    | 85% humidity for 500 hours @ +85°C (+185°F)  |
| <b>Vibration:</b>                   | 10Hz with peak-to-peak amplitude of 10mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 500,000 cycles      |
| <b>Shock:</b>                       | 100G (981m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)                                    |
| <b>Notes:</b>                       | <ol style="list-style-type: none"> <li>1. Prevent exposure to magnetic fields.</li> <li>2. Do not install switch near vibration source.</li> </ol> |