

# HDS Series

## Micro Mini Side Actuated Surface Mount Detect Switches



### Description

HDS series switches are micro mini side actuated surface mount detect switches, typically incorporated into leading product designs for consumer electronics, medical devices and ATCA and MicroTCA devices. With a low profile – the package sits just 1.4mm off the PCB – the HDS switches come with optional top or side actuation and a choice of right or left options, meaning designers can use it no matter what their design specs are.

### Features & Benefits

- Low profile package sits just 1.4 mm off PCB
- Design allows top or side actuation
- Right and left options available
- Low actuation force, 30 grams max.
- Pick and place compatible, available in tape & reel packaging
- RoHS compliant and compatible

### Specifications

|                                      |  |
|--------------------------------------|--|
| <b>Contact Rating</b>                | 1mA @ 5 VDC                                    |
| <b>Operating Life</b>                | 100,000 cycles min.                            |
| <b>Contact Resistance</b>            | 1 $\Omega$ max. initial                        |
| <b>Insulation Resistance</b>         | 100 M $\Omega$ min. between adjacent contacts. |
| <b>Operating/Storage Temperature</b> | -40°C to 80°C                                  |
| <b>Packaging</b>                     | Tape & reel; 5,000 per reel                    |
| <b>Pre Travel</b>                    | 0.17 mm min.                                   |
| <b>Over Travel</b>                   | 0.5 mm min.                                    |
| <b>Total</b>                         | 1.07 mm  |

### Applications

- Consumer electronics
- Computers
- Medical devices
- Mobile communications
- ATCA and MicroTCA devices

### Materials

|                      |  |
|----------------------|--|
| <b>Base</b>          | LCP, HDS001L: Gray, HDS001R: Black               |
| <b>Cover</b>         | PA 46 (UL 94 V-0)                                |
| <b>Actuator</b>      | PA 46 (UL 94 V-0), HDS001L: Gray, HDS001R: Black |
| <b>Movable Blade</b> | Stainless Steel, Ag over Ni plating              |
| <b>Terminal</b>      | Phosphor Bronze, Ag plating                      |

### Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

**HDS - 001 - x**

**R:** Right Actuation  
**L:** Left Actuation

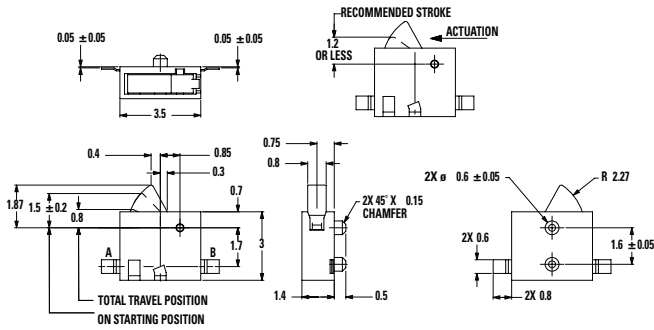
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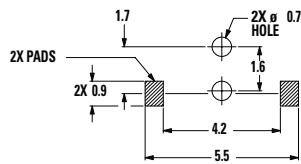
### Dimensions (mm)

#### HDS001R



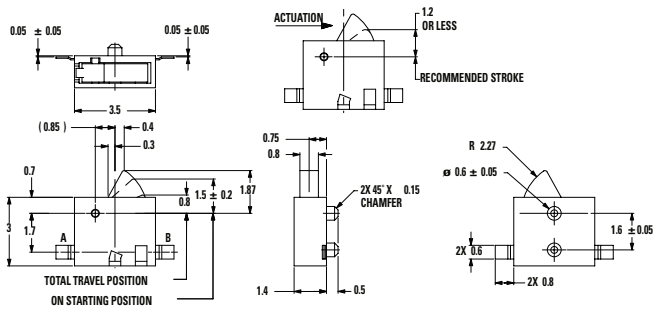
| Part Number | Packaging   | Schematic |
|-------------|-------------|-----------|
| HDS001R     | Tape & Reel | N.O.      |

#### PCB Mounting



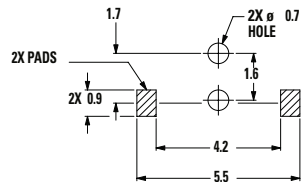
### Dimensions (mm)

#### HDS001L



| Part Number | Packaging   | Schematic |
|-------------|-------------|-----------|
| HDS001L     | Tape & Reel | N.O.      |

#### PCB Mounting



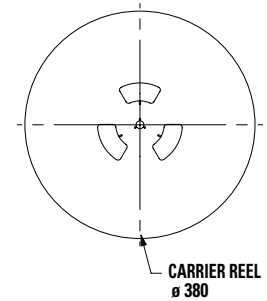
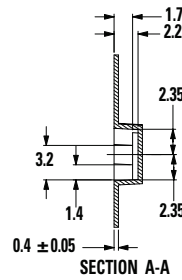
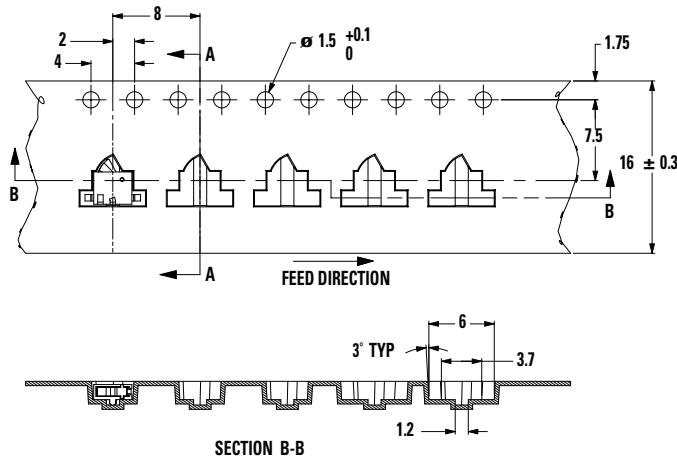
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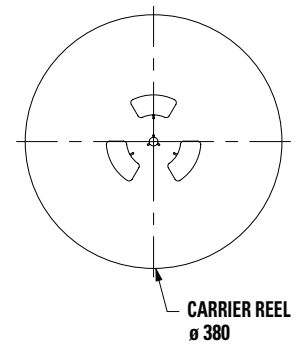
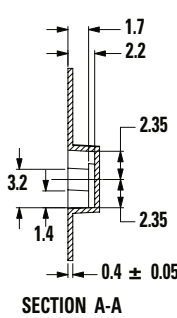
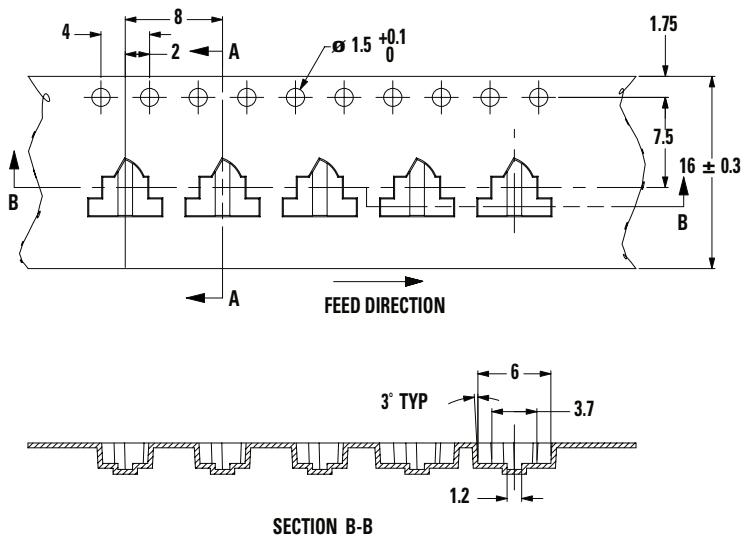
### Tape & Reel HDS001R

Dimensions (mm)



### HDS001L

Dimensions (mm)



Note: Quantity per reel: 5,000 pieces

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