

# SDA Series Low Profile DIP Switches



DIP

## Features/Benefits

- Low profile design saves space
- Thru-hole and surface mount models
- High pressure contact does not require tape seal for washing
- Tape and reel packaging available
- RoHS compliant

## Typical Applications

- Address switch for industrial controls
- Logic switching for computers and peripherals
- Function controlling for numerous applications



## How To Order

Complete part numbers for SDA Series are shown on pages I-7 through I-9. All switches supplied in "OFF" position.

## Specifications

CONTACT RATING: 25 mA @ 24 V DC or 100 mA @ 50 V DC.  
 MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles at rated loads.  
 CONTACT RESISTANCE: 50 milliohms max. initial.  
 INSULATION RESISTANCE: 100 megohms between terminals.  
 DIELECTRIC WITHSTANDING VOLTAGE: 300 V DC min. for 1 minute.  
 STORAGE TEMPERATURE: -40°C to 85°C.  
 OPERATING TEMPERATURE: -40°C to 85°C.  
 OPERATING FORCE: 800 grams max.  
 SOLDERABILITY: Dip and look solderability testing per C&K spec. #448. Unplated edges of terminals permitted.  
 PACKAGING: Switches supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model. Tape and reel packaging also available for surface mount options.

## Materials

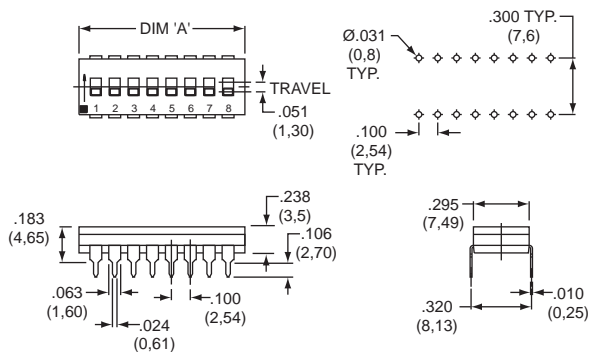
HOUSING: PPS, color black (UL94V-0).  
 COVER: PPS, color black (UL94V-0).  
 ACTUATOR: PA6T (UL94-0)  
 CONTACTS: Gold plated Beryllium copper.  
 TERMINALS: Gold plate over nickel plated brass.  
 TAPE SEAL: Polyimide.

**Note:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center. For Tin Lead options consult customer service center.

## Flush Actuator – No Tape, Thru-hole Terminals



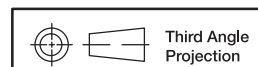
SDA08H0BD



| ROHS PART NUMBER | NO. POS. | DIM. 'A'      | QUANTITY PER TUBE |
|------------------|----------|---------------|-------------------|
| SDA01H0BD        | 1        | .178 (4,52)   | 100               |
| SDA02H0BD        | 2        | .278 (7,06)   | 60                |
| SDA03H0BD        | 3        | .378 (9,60)   | 45                |
| SDA04H0BD        | 4        | .476 (12,10)  | 35                |
| SDA05H0BD        | 5        | .578 (14,68)  | 30                |
| SDA06H0BD        | 6        | .676 (17,18)  | 25                |
| SDA07H0BD        | 7        | .778 (19,76)  | 20                |
| SDA08H0BD        | 8        | .876 (22,26)  | 20                |
| SDA09H0BD        | 9        | .978 (24,84)  | 15                |
| SDA10H0BD        | 10       | 1.076 (27,34) | 15                |
| SDA12H0BD        | 12       | 1.279 (32,50) | 14                |

|           |  |
|-----------|--|
| Schematic |  |
| SPST      |  |



Dimensions are shown: Inch (mm)  
 Specifications and dimensions subject to change



# SDA Series Low Profile DIP Switches

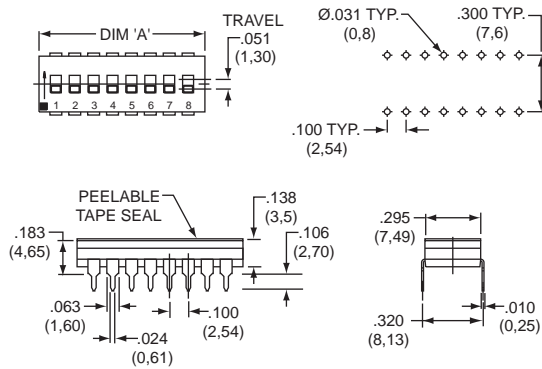


## Flush Actuator – With Top Tape, Thru-hole Terminals

| ROHS PART NUMBER | NO. POS. | DIM. 'A'      | QUANTITY PER TUBE |
|------------------|----------|---------------|-------------------|
| SDA01H0B         | 1        | .178 (4,52)   | 100               |
| SDA02H0B         | 2        | .278 (7,06)   | 60                |
| SDA03H0B         | 3        | .378 (9,60)   | 45                |
| SDA04H0B         | 4        | .476 (12,10)  | 35                |
| SDA05H0B         | 5        | .578 (14,68)  | 30                |
| SDA06H0B         | 6        | .676 (17,18)  | 25                |
| SDA07H0B         | 7        | .778 (19,76)  | 20                |
| SDA08H0B         | 8        | .876 (22,26)  | 20                |
| SDA09H0B         | 9        | .978 (24,84)  | 15                |
| SDA10H0B         | 10       | 1.076 (27,34) | 15                |
| SDA12H0B         | 12       | 1.279 (32,50) | 14                |

Schematic

SPST



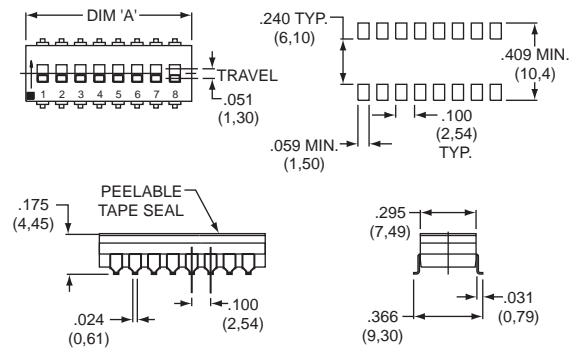
SDA08H0B

## Flush Actuator – With Top Tape, Surface Mount Terminals

| ROHS PART NUMBER | NO. POS. | DIM. 'A'      | QUANTITY PER TUBE |
|------------------|----------|---------------|-------------------|
| SDA01H0SB        | 1        | .178 (4,52)   | 100               |
| SDA02H0SB        | 2        | .278 (7,06)   | 60                |
| SDA03H0SB        | 3        | .378 (9,60)   | 45                |
| SDA04H0SB        | 4        | .476 (12,10)  | 35                |
| SDA05H0SB        | 5        | .578 (14,68)  | 30                |
| SDA06H0SB        | 6        | .676 (17,18)  | 25                |
| SDA07H0SB        | 7        | .778 (19,76)  | 20                |
| SDA08H0SB        | 8        | .876 (22,26)  | 20                |
| SDA09H0SB        | 9        | .978 (24,84)  | 15                |
| SDA10H0SB        | 10       | 1.076 (27,34) | 15                |
| SDA12H0SB        | 12       | 1.279 (32,50) | 14                |

Schematic

SPST



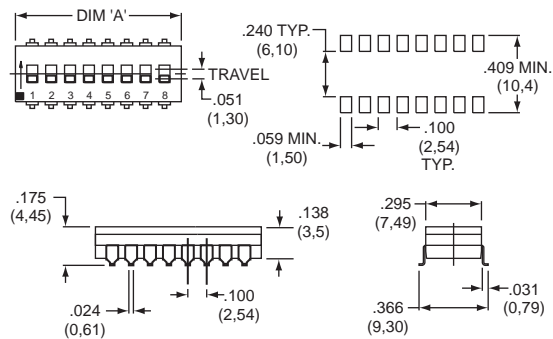
SDA08H0SB

## Flush Actuator – No Tape, Surface Mount Terminals

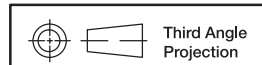
| ROHS PART NUMBER | NO. POS. | DIM. 'A'      | QUANTITY PER TUBE |
|------------------|----------|---------------|-------------------|
| SDA01H0SBD       | 1        | .178 (4,52)   | 100               |
| SDA02H0SBD       | 2        | .278 (7,06)   | 60                |
| SDA03H0SBD       | 3        | .378 (9,60)   | 45                |
| SDA04H0SBD       | 4        | .476 (12,10)  | 35                |
| SDA05H0SBD       | 5        | .578 (14,68)  | 30                |
| SDA06H0SBD       | 6        | .676 (17,18)  | 25                |
| SDA07H0SBD       | 7        | .778 (19,76)  | 20                |
| SDA08H0SBD       | 8        | .876 (22,26)  | 20                |
| SDA09H0SBD       | 9        | .978 (24,84)  | 15                |
| SDA10H0SBD       | 10       | 1.076 (27,34) | 15                |
| SDA12H0SBD       | 12       | 1.279 (32,50) | 14                |

Schematic

SPST



SDA08H0SBD



Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



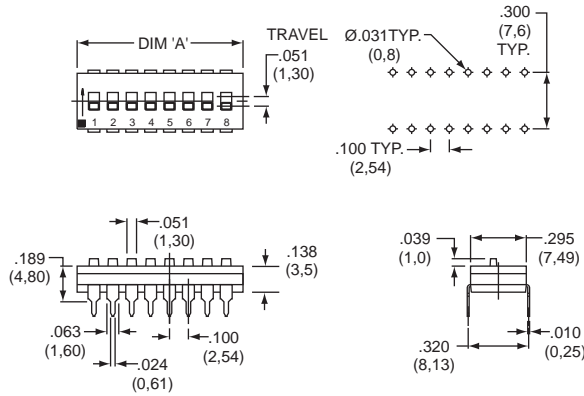
# SDA Series Low Profile DIP Switches

DIP

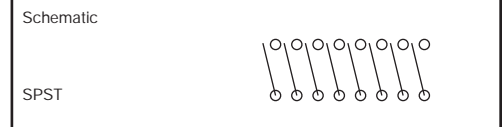
## Extended Actuator – No Top Tape, Thru-hole Terminals



SDA08H1BD



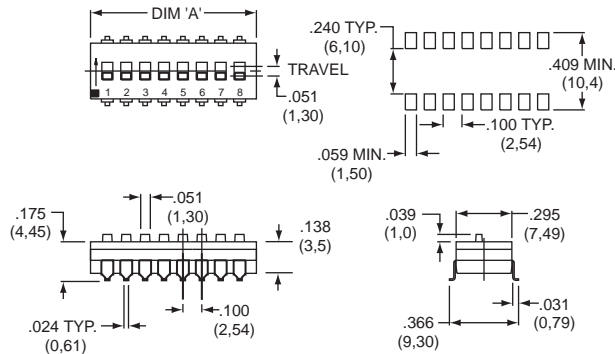
| ROHS PART NUMBER | NO. POS. | DIM. 'A'      | QUANTITY PER TUBE |
|------------------|----------|---------------|-------------------|
| SDA01H1BD        | 1        | .178 (4,52)   | 100               |
| SDA02H1BD        | 2        | .278 (7,06)   | 60                |
| SDA03H1BD        | 3        | .378 (9,60)   | 45                |
| SDA04H1BD        | 4        | .476 (12,10)  | 35                |
| SDA05H1BD        | 5        | .578 (14,68)  | 30                |
| SDA06H1BD        | 6        | .676 (17,18)  | 25                |
| SDA07H1BD        | 7        | .778 (19,76)  | 20                |
| SDA08H1BD        | 8        | .876 (22,26)  | 20                |
| SDA09H1BD        | 9        | .978 (24,84)  | 15                |
| SDA10H1BD        | 10       | 1.076 (27,34) | 15                |
| SDA12H1BD        | 12       | 1.279 (32,50) | 14                |



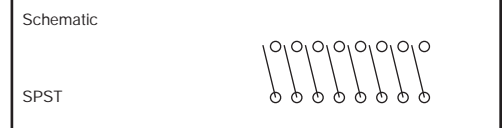
## Extended Actuator – No Top Tape, Surface Mount Terminals



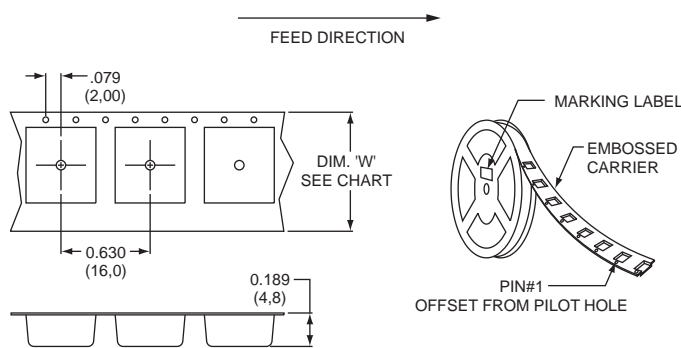
SDA08H1SBD



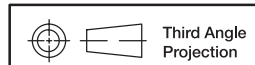
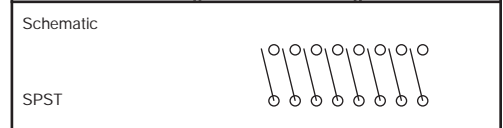
| ROHS PART NUMBER | NO. POS. | DIM. 'A'      | QUANTITY PER TUBE |
|------------------|----------|---------------|-------------------|
| SDA01H1SBD       | 1        | .178 (4,52)   | 100               |
| SDA02H1SBD       | 2        | .278 (7,06)   | 60                |
| SDA03H1SBD       | 3        | .378 (9,60)   | 45                |
| SDA04H1SBD       | 4        | .476 (12,10)  | 35                |
| SDA05H1SBD       | 5        | .578 (14,68)  | 30                |
| SDA06H1SBD       | 6        | .676 (17,18)  | 25                |
| SDA07H1SBD       | 7        | .778 (19,76)  | 20                |
| SDA08H1SBD       | 8        | .876 (22,26)  | 20                |
| SDA09H1SBD       | 9        | .978 (24,84)  | 15                |
| SDA10H1SBD       | 10       | 1.076 (27,34) | 15                |
| SDA12H1SBD       | 12       | 1.279 (32,50) | 14                |



## Tape & Reel Packaging – Surface Mount Options only



| ROHS PART NUMBER | DIM. 'W'    | QUANTITY PER REEL |
|------------------|-------------|-------------------|
| SDA01H0SBR       | .945 (24,0) | 1500              |
| SDA02H0SBR       | .945 (24,0) | 750               |
| SDA03H0SBR       | .945 (24,0) | 750               |
| SDA04H0SBR       | .945 (24,0) | 750               |
| SDA05H0SBR       | .945 (24,0) | 750               |
| SDA06H0SBR       | 1.26 (32,0) | 750               |
| SDA07H0SBR       | 1.26 (32,0) | 750               |
| SDA08H0SBR       | 1.73 (44,0) | 750               |
| SDA09H0SBR       | 1.73 (44,0) | 750               |
| SDA10H0SBR       | 1.73 (44,0) | 750               |
| SDA12H0SBR       | 1.73 (44,0) | 750               |



Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

