



Features

- Eight and four positions available
- Gold plated contacts offer high reliability
- Low contact resistance
- Just 1.5 mm total height
- Half pitch of 1.27 mm(.050 in.)
- RoHS compliant*

 The SDHH Series is currently available, although not recommended for new designs.

SDHH Series Half Pitch SMD DIP Switch

Electrical Characteristics

Electrical Life1,000 operation cycles
per switch min.
Non-Switching Rating ..100 mA, 50 VDC
Switching Rating25 mA, 24 VDC
Contact Resistance100 mohms max.
Insulation Resistance ...100 Mohms min.,
DC 500 V min.
Dielectric Strength
.....AC 300 V for 1 minute
Capacitance5 pF max.
between adjacent closed switch
CircuitSingle pole single throw

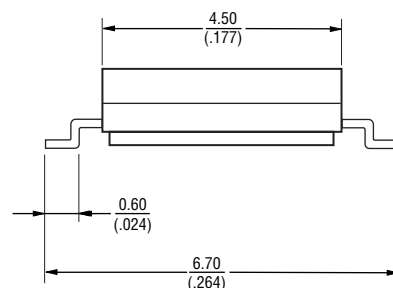
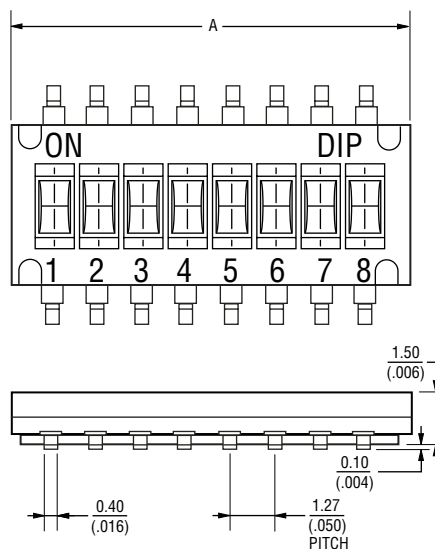
Environmental Characteristics

Mechanical Life1,000 operations
per switch min.
Operation Force500 g max.
Stroke.....0.6 mm
Operating Temp. Range
.....-40 °C to +85 °C
Storage Temperature ...-40 °C to +85 °C
Vibration TestMIL-STD-202F,
Method 201A
Frequency10-50-10 Hz/1 minute
Directions.....X,Y,Z, three mutually
perpendicular directions
Time.....2 hours each direction,
high reliability
Shock TestMIL-STD-202F,
Method 213B, Condition A
Gravity50 G (peak value), 11 msec
Direction & Times6 sides and
3 times in each direction.
High reliability

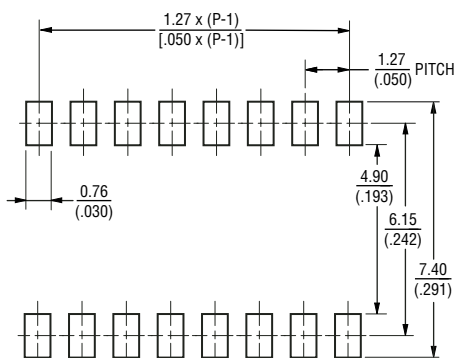
Physical Characteristics

Cover MaterialsThermoplastic
Nylon, UL94V-0; black
Base Materials.....Thermoplastic
Nylon, UL94V-0; black
Actuator MaterialsThermoplastic
LCP, UL94V-0; white
Contact MaterialsAlloy Copper
Contact Plating.....3 Micro inches gold
over 40 micro inches nickel
Terminal MaterialsBrass with
Gold plating
Reflow SolderingPeak temperature
or reflow oven should
be set to 240 °C. max.
2 sec. while applying solder
PackagingAll poles in the
"off" position

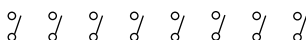
Product Dimensions



Recommended PCB Layout



Circuit Diagram



SDHH Series Dimensions

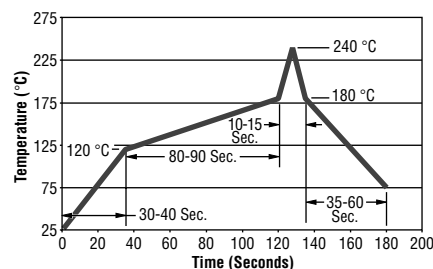
MODEL NO.	POS.	DIM. A	DIM. B
SDHH-4	4	6.31 (.248)	3.81 (.15)
SDHH-8	8	11.39 (.448)	8.89 (.35)

How to Order

SDH H - 8 - T R

Model _____
 Actuator _____
 H = Recessed
 Number of positions _____
 4 = 4 positions
 8 = 8 positions
 Seal _____
 T = Top tap sealed (standard)
 Packaging _____
 R = Tape and reel

Reflow Soldering Profile



DIMENSIONS ARE: $\frac{\text{MM}}{(\text{INCHES})}$

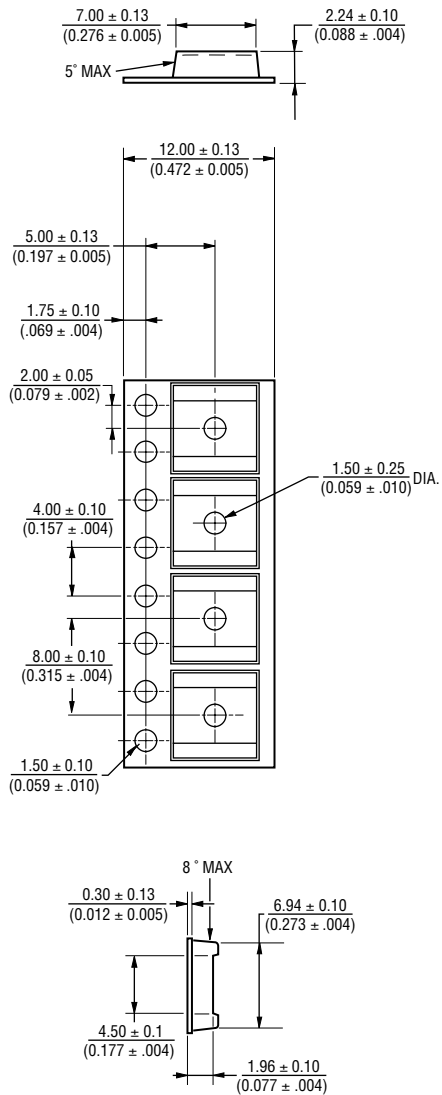
TOLERANCES: ± 2 EXCEPT WHERE NOTED.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

SDHH Series Half Pitch SMD DIP Switch

BOURNS®

Packaging Specifications



REV. 02/06

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