




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 Resistance.....100 mohms max.
 Insulation Resistance ...100 Mohms min., DC 500 V min.
 Dielectric StrengthAC 300 V for 1 minute
 Capacitance.....5 pF max. between adjacent closed switch
 CircuitSingle pole single throw

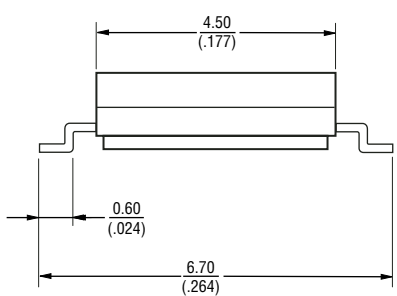
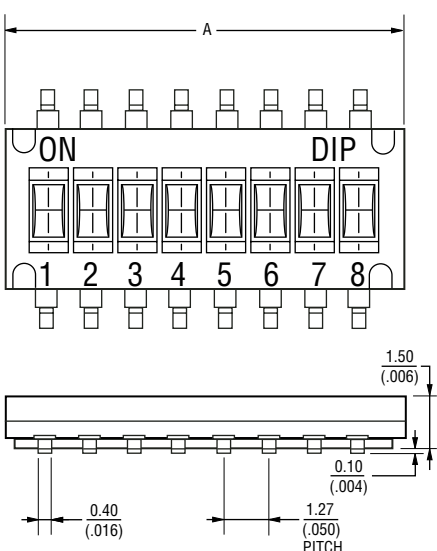
Environmental Characteristics

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

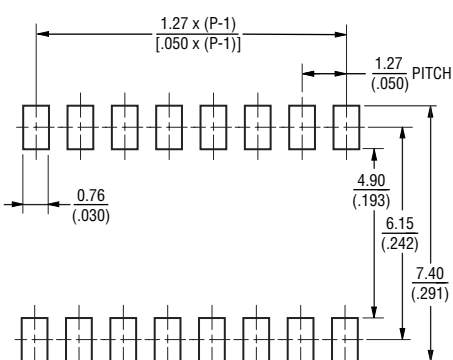
Physical Characteristics

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
 Packaging.....All poles in the "off" position

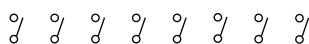
Product Dimensions



Recommended PCB Layout



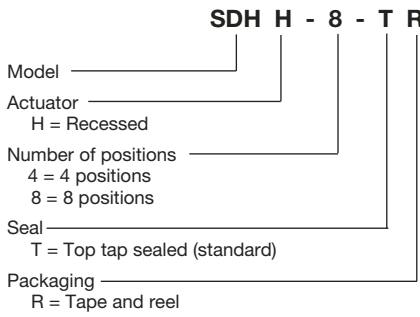
Circuit Diagram



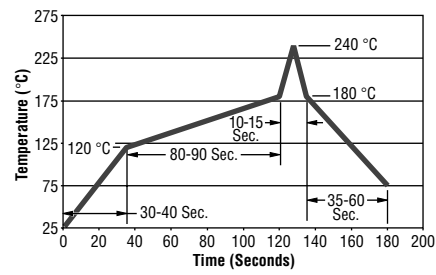
SDHH Series Dimensions

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



Reflow Soldering Profile



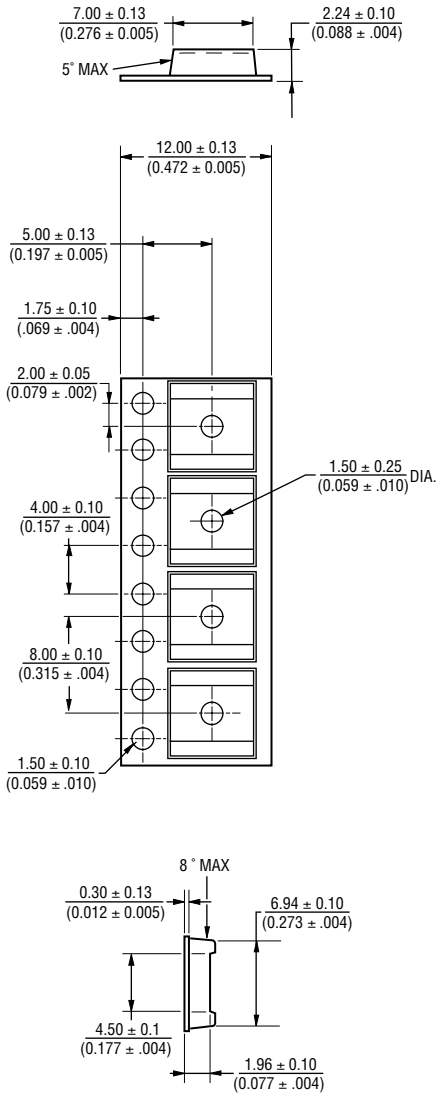
DIMENSIONS ARE: $\frac{\text{MM}}{\text{(INCHES)}}$
 TOLERANCES: ± 2 EXCEPT WHERE NOTED.

*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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