

BOURNS®

Features

- Double contacts offer high reliability
- Low contact resistance
- Self-clean on contact area
- Splay terminals allow for automatic insertion by IC insertion machine
- Straight terminals are available for manual insertion

Applications

- PC interface boards
- LANs
- Auto dialing systems
- Remote controlled systems

SDI Series DIP Switch (Machine Insertable Type)

Electrical Characteristics

Electrical Life2,000 operations min. per switch, 24VDC, 25mA
 Non-Switching Rating100mA, 50VDC
 Switching Rating25mA, 24 VDC
 Contact Resistance (@ current 100mA)50 milliohms max. at initial 100 milliohms max. after life test
 Insulation Resistance100 megohms min. at 500 ±15VDC
 Dielectric Strength500VDC/minute
 Capacitance5pf max. between adjacent closed switch
 CircuitSingle pole single throw

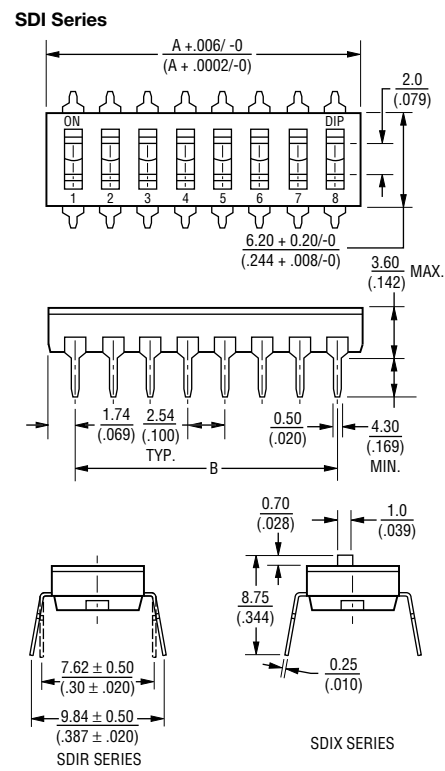
Environmental Characteristics

Mechanical Life...2,000 operations per switch
 Operation Force800g max.
 Stroke.....1.0mm
 Operating Temp. Range.....-40°C to +85°C
 Storage Temperature-40°C to +85°C
 Vibration TestMIL-STD-202F, Method 201A
 Frequency10-55-10 Hz/minute
 DirectionsX,Y,Z, three mutually perpendicular directions
 Time.....2 hours each direction. High reliability
 Shock TestMIL-STD-202F, Method 213B, Condition A
 Gravity50G (peak value), 11 msec
 Direction & Times.....6 sides and 3 times in each direction. High reliability

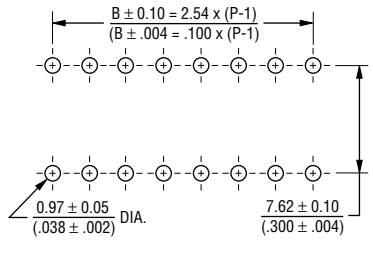
Physical Characteristics

Base and Cover MaterialsUL94V-0 high-temperature thermoplastic PPS
 ColorBlack
 Actuator MaterialsUL94V-0 Nylon plus glass fiber reinforced
 ColorWhite
 Contact MaterialsAlloy copper
 Terminal MaterialsBrass
 Contact Plating Materials3 micro inches gold plating over 40 micro inches nickel
 Terminal Plating MaterialsGold
 Wave Soldering Process*Recommended solder temp. at 260°C (500°F) max., 5 sec.
 Hand Soldering Process*Use a soldering iron of 30 watts or less, controlled at 320°C (608°F) for approx. 2 sec. while applying solder
 Cleaning Process*Flux clean using force rinse, high agitation or triple bath cleaning method. Freon TF or TE give excellent results. When vapor methods are used, do not subject the switch to solvents at temperatures above 51°C (125°F).
 Standard PackagingIC tubes/all poles in the "off" position

Product Dimensions

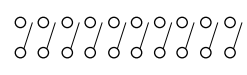


RECOMMENDED PCB LAYOUT



SCHEMATIC (TYP.)

1-10 POSITIONS AVAILABLE



DIMENSIONS: $\frac{MM}{(IN)}$

How to Order

SDI R - 1 - T S

Model _____

Actuator _____

- X = Raised Actuator
- R = Recessed Actuator

Number of Positions _____

- 1 = 1 Position
- 2 = 2 Positions
- 4 = 4 Positions
- 6 = 6 Positions
- 8 = 8 Positions
- 10 = 10 Positions

Seal _____

- X = Standard (Not Sealed)
- T = Top Tap Sealed ("R" actuator only)

Terminal Type _____

- S = Splay Terminal
- H = Straight Terminal

SDI Series Dimensions

MODEL NO.	POSITIONS	DIM. A	DIM. B
SDI-10	10	26.34	22.86
SDI-8	8	21.26	17.78
SDI-6	6	16.18	12.70
SDI-4	4	11.10	7.62
SDI-2	2	6.02	2.54
SDI-1	1	3.48	—

*For best results, keep all switch contacts in their "off" position for all operations.

Specifications are subject to change without notice.