Features
- Double contacts
- Low contact resistance
- Self-clean on contact area
- Vapor phase solderable, IR-reflow solderable
- Terminal plating by gold gives excellent results when soldering
- RoHS compliant

SDM Series Surface Mount DIP Switch

Electrical Characteristics
- Electrical Life: 2,000 operations min. per switch, 24 VDC, 25 mA
- Non-Switching Rating: 100 mA, 50 VDC
- Switching Rating: 25 mA, 24 VDC
- Contact Resistance (@ current 100mA): 50 milliohms max. at initial 100 milliohms max. after life test
- Insulation Resistance: > 100 megohms min. at 500 ±15 VDC
- Dielectric Strength: 500 VDC/minute
- Capacitance: 5 pF max. between adjacent closed switch
- Circuit: Single pole single throw

Environmental Characteristics
- Mechanical Life: 2,000 operations per switch
- Operation Force: 100 g max.
- Stroke: 1.0 mm
- Operating Temp. Range: -20°C to +70°C
- Storage Temperature: -40°C to +85°C
- Vibration Test: MIL-STD-202F, Method 214B, Condition A
- Frequency: 10-55 Hz/1 minute
- Directions: X, Y, Z, three mutually perpendicular directions
- Time: 2 hours each direction
- Shock Test: MIL-STD-202F, Method 214B, Condition A
- Gravity: 50 G (peak value), 11 msec
- Direction & Times: 6 slides and 3 times in each direction
- High reliability

Physical Characteristics
- Base and Cover Materials: UL94V-0 PPS plus glass fiber reinforced
- Color: Black
- Actuator Materials: Nylon plus glass fiber reinforced
- Color: White
- Contact Materials: Alloy copper
- Terminal Materials: Brass
- Contact Plating Materials: 3 micro inches gold plating over 40 micro inches nickel
- Terminal Plating Materials: Gold soldering
- Vapor phase and IR-reflow soldering can be applied
- Standard Packaging: IC tubes/all poles in the "off" position

Product Dimensions

Packaging Specifications

How to Order

Model
- SDM R - 2 - T R
  - X = Raised Actuator
  - R = Recessed Actuator

Number of Positions
- 1 = 1 Position
- 2 = 2 Positions
- 3 = 3 Positions
- 4 = 4 Positions
- 5 = 5 Positions
- 6 = 6 Positions

Seal
- X = Standard (Not Sealed)
- T = Top Sealed ("R" Actuator only)

Packaging Option
- (Top Sealed, Recessed only)
- R = Tape and Reel Packaging
  - (900 pcs./reel)

Reflow Soldering Profile

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.