**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
- Switching and Non-Switching Rating: 25 mA, 24 VDC, 25 mA, 100 mA, 50 VDC
- Electrical Life: 2,000 operations min. per switch

**Environmental Characteristics**
- Mechanical Life: 2,000 operations per switch
- Operation Force: 1000 gf max.
- Shock Test: MIL-STD-202F, Method 213B, Condition A
- Vibration Test: MIL-STD-202F
- Storage Temperature: -40 °C to +85 °C
- Operating Temp. Range: -20 °C to +70 °C
- Stroke: 1.0 mm
- Time: 2 hours each direction.
- Directions & Times: 6 sides and 3 times in each direction.

**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 Process, Vapor phase and IR-reflow soldering can be applied
- Standard Packaging: IC tubes/all poles in the “off” position

**Packaging Specifications**
- How to Order
- Number of Positions: 1 = 1 Position, 2 = 2 Positions, 3 = 3 Positions, 4 = 4 Positions, 5 = 5 Positions, 6 = 6 Positions
- Seal: X = Standard, R = Recessed
- Packaging: Tape and Reel Packaging (900 pcs./reel)

**SDM Series**

**Product Dimensions**

**Schematic (TYP.)** 1,2,3,4,5,6,7,8,9,10,12 POSITIONS AVAILABLE

**Reflow Soldering Profile**

**How to Order**

**Standard Packaging**

**SDM Series Surface Mount DIP Switch**

**SDM Series**

**Terminal Plating Materials**
- Gold

**Contact Plating Materials**
- 3 micro inches

**Terminal Materials**
- Brass

**Contact Materials**
- Alloy copper

**Design Considerations**
- High reliability
- Gold-plated contacts offer excellent corrosion resistance
- Self-clean on contact area

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