

BOURNS®

STSM – Ultraminiature Tactile Switch

Features

- Available sharp click feel with a positive tactile feedback
- Ultraminiature and lightweight structure suitable for high density mounting
- Economical
- Reliable
- RoHS compliant†

Electrical Characteristics

Electrical Life50,000 Cycles for 160 gf, 320 gf
 Rating50 mA, 12 VDC
 Contact Resistance100 mΩ max.
 Insulation Resistance100 MΩ min. @ 500 VDC
 Dielectric Strength.....250 VAC/1 minute
 Contact Arrangement.....SPST

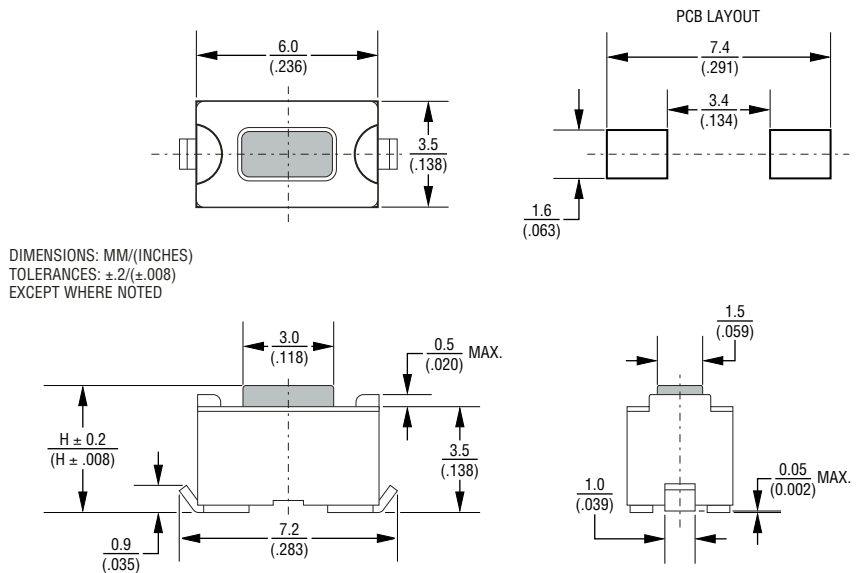
Environmental Characteristics

Operation Temperature Range-25 °C to +70 °C
 Storage Temperature Range-30 °C to +80 °C
 Vibration TestMIL-STD-202F Method 201A
 Frequency.....10-55-10Hz/1 minute
 DirectionsX,Y,Z, three mutually perpendicular directions
 Time.....2 hours each direction
 Shock TestMIL-STD-202F Method 213B Condition A
 Gravity50 G (peak value), 11 msec
 Direction and Times...6 sides and 3 times in each direction

Physical Characteristics

Cover MaterialsStainless Steel
 Base Materials.....UL 94V-0 Nylon or PPA High-Temperature Thermoplastic
 ActuatorUL 94V-0 Nylon High-Temperature Thermoplastic
 Contact DiscStainless steel with silver cladding
 Terminals.....Brass with silver cladding

Product Dimensions



How To Order

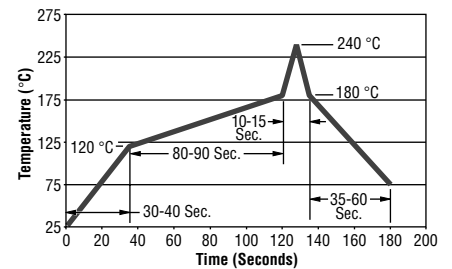
STSM - 31 - STR

Model _____
 Style _____
 M = Surface mount
 Product Size _____
 -3 = 3.5 mm wide x 6 mm long
 Height _____
 1 = 4.3 mm
 2 = 5.0 mm
 Color of Stem for Operating Force _____
 -N = Brown, 160 g
 -S = Salmon, 320 g
 Packaging Option _____
 — = Standard Packaging
 135 pcs./tube
 TR = Tape & Reel Packaging
 31 – 1800 pcs./reel
 32 – 1600 pcs./reel

Circuit Diagram



Reflow Soldering Profile



Specifications are subject to change without notice.
 †RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Customers should verify actual device performance in their specific applications.
 REV 09/04