

Series 223B Data Sheet Tactile Switch

4.5 x 4.5mm Compact Tactile Switch

Features

Optimized Mechanical Features

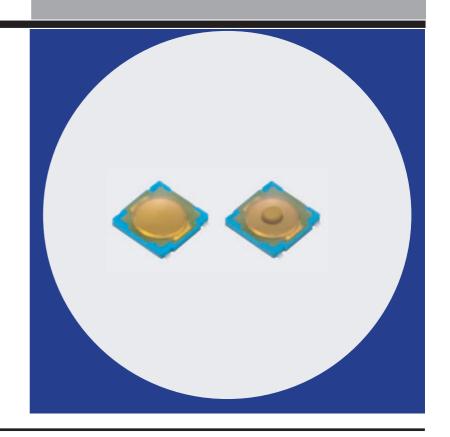
- · Surface mount gull-wing terminal configuration
- · Compatible with IR reflow and manual soldering
- · Variety of operating force & actuator height options

Optimized Contact System

Excellent tactile feedback

Materials

- · Silver coated terminals for better solderability
- High temperature materials (UL94V-0)
- RoHS compliant



Electrical and Mechanical Specifications

Switch Contact Resistance

100 milliohms maximum

Insulation Resistance

100 Megohms minimum between terminals

Maximum Rating

50mA, 12 VDC

Dielectric Strength

250 VAC for 1 minute between adjacent terminals

Operating Force

100, 160 gf or 260 gf

Travel

0.2 +0.15 mm

Operating Temperature

- 40°C to +85°C

Storage Temperature

- 40°C to +85°C

Actuator Strength

3 Kgf maximum

Actuation Life

100 gf: 1,000,000 cycles (flat surface), 500,000 cycles (button) 160 gf: 1,000,000 cycles (flat surface), 500,000 cycles (button)

260 gf: 200,000 cycles

Allowable Solder Time

IR Reflow: Up to 5 seconds at 260°C.

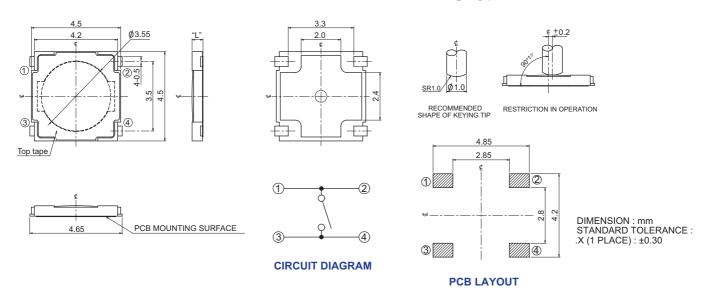
Manual soldering: Up to 3 seconds at 350°C

Packaging

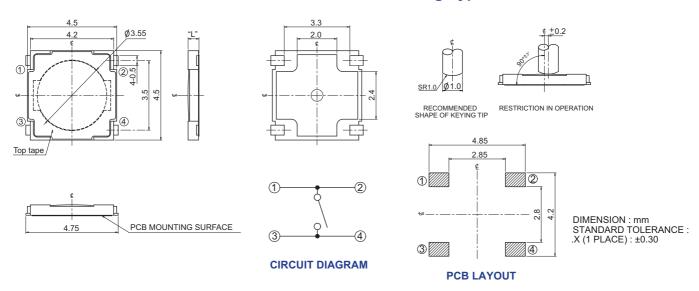
Standard: Tape and reel packaging with

330mm diameter reel and 12mm wide plastic tape

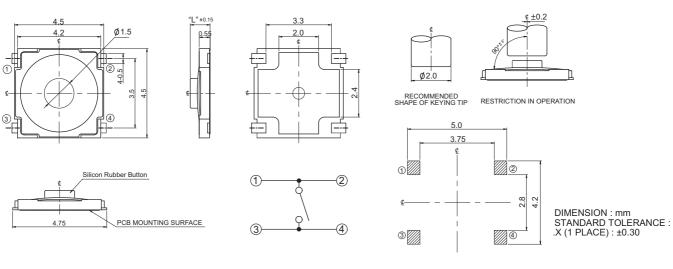
CTS SERIES 223BM1VA... - Surface Mount Gull Wing Type 1, Flat Surface



CTS SERIES 223BM2VA... - Surface Mount Gull Wing Type 2, Flat Surface



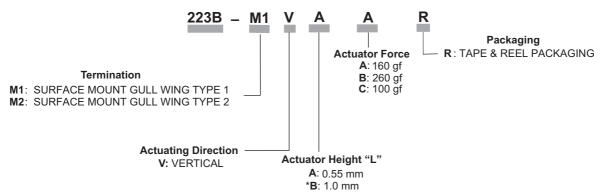
CTS SERIES 223BM2VB... - Surface Mount Gull Wing Type 2, With Button



CIRCUIT DIAGRAM

PCB LAYOUT

Ordering Information



*B option is not available for surface mount gullwing type 1

Note:

Consult CTS for other common features not listed.