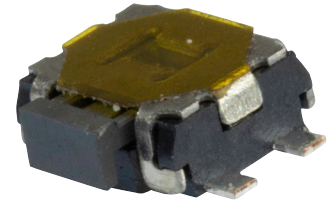


**SERIES:** TS23 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- 160 or 260 gf models
- surface mount

**SPECIFICATIONS**

| parameter             | conditions/description                                                                   | min  | typ              | max  | units            |
|-----------------------|------------------------------------------------------------------------------------------|------|------------------|------|------------------|
| rated voltage         |                                                                                          | 1    |                  | 12   | Vdc              |
| rated current         |                                                                                          | 0.01 |                  | 50   | mA               |
| withstanding voltage  | for 1 minute                                                                             |      | 250              |      | Vac              |
| contact resistance    | applying load of 2 times operating force at 5 Vdc, 10 mA                                 |      |                  | 100  | mΩ               |
| insulation resistance | for 1 minute at 100 Vdc                                                                  | 100  |                  |      | MΩ               |
| operating force       | see force table                                                                          |      |                  |      |                  |
| actuator travel       |                                                                                          | 0.10 | 0.20             | 0.30 | mm               |
| operating temperature |                                                                                          | -25  |                  | 80   | °C               |
| storage temperature   |                                                                                          | -25  |                  | 80   | °C               |
| life                  | rated load, 2 cycles/second, 1.5 times operating force<br>160 gf models<br>260 gf models |      | 50,000<br>40,000 |      | cycles<br>cycles |
| vibration             | 10~55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ                                       |      |                  |      |                  |
| flammability rating   | see material table                                                                       |      |                  |      |                  |
| RoHS                  | yes                                                                                      |      |                  |      |                  |

**PART NUMBER KEY****TS23 - 46 - 06 - BK - XXX - SMT - TR**

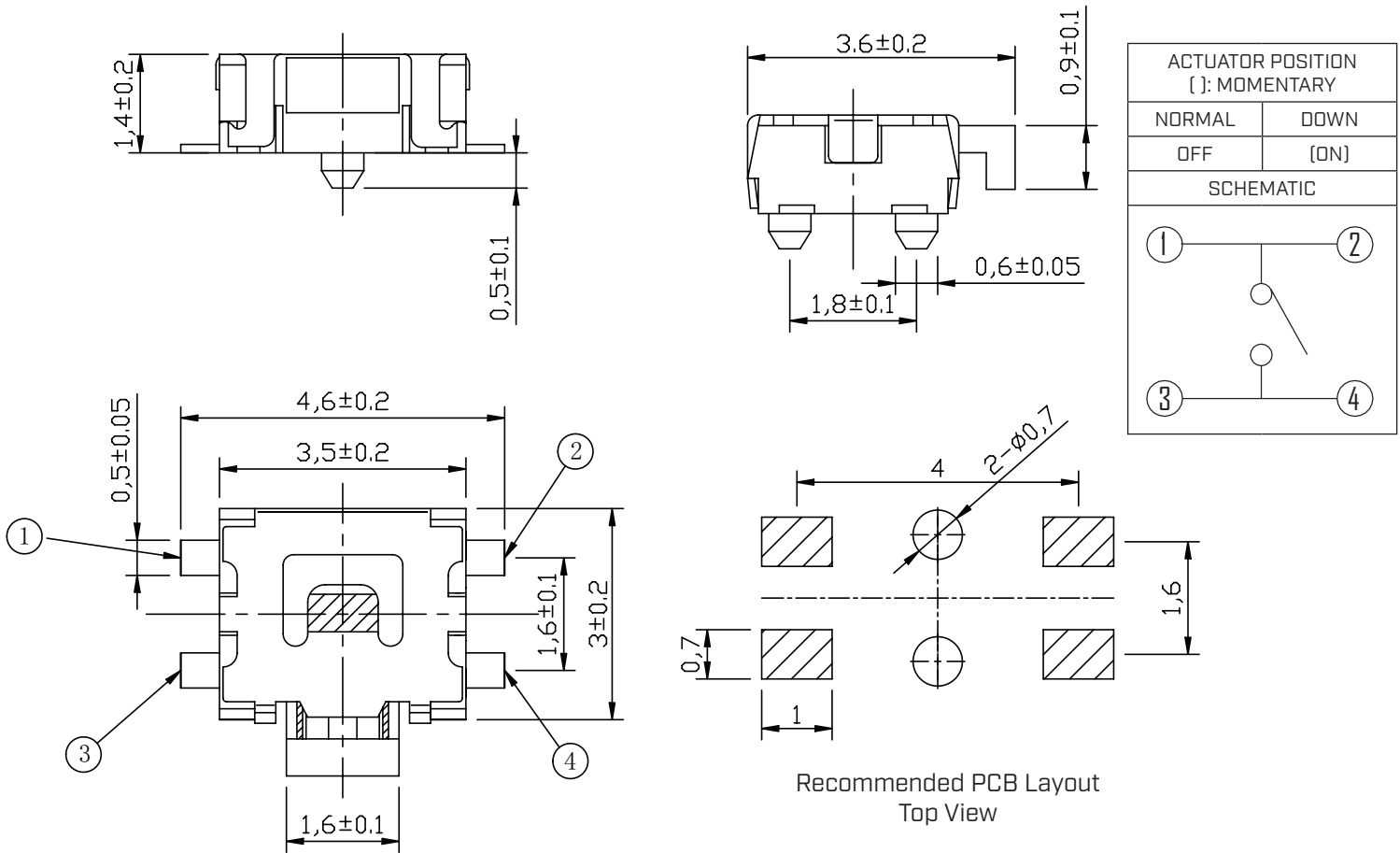
Base Number

Push Force:  
160 = 160 gf  
260 = 260 gf

MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm  
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL      | PLATING/COLOR |
|------|-------------|---------------|---------------|
| 1    | terminal    | brass         | silver        |
| 2    | case        | LCP [UL94V-0] | black         |
| 3    | contact     | SUS           | silver        |
| 4    | cover       | SUS           |               |
| 5    | PI          | PI            | yellow        |
| 6    | stem        | PPA           | black         |

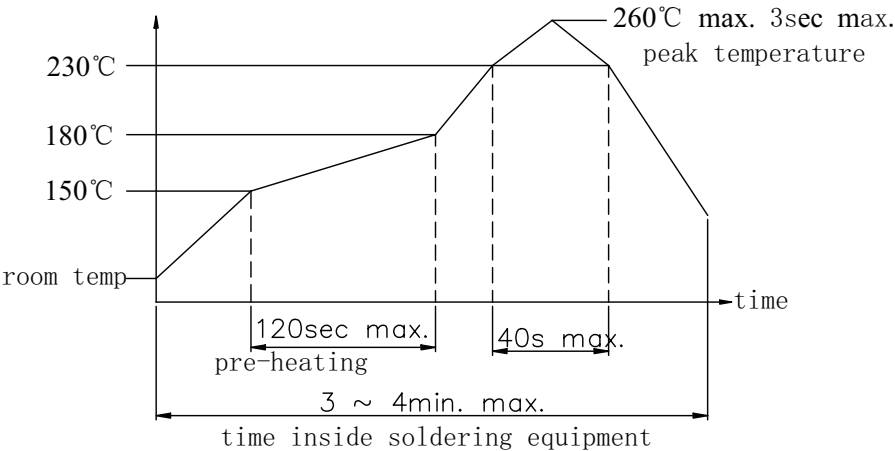


| Operating Force Table |                  |                   |
|-----------------------|------------------|-------------------|
| Model                 | Press Force [gf] | Return Force [gf] |
| 160                   | $160 \pm 50$     | $> 20$            |
| 260                   | $260 \pm 70$     | $> 20$            |

SOLDERABILITY

| parameter        | conditions/description                                                                            | min | typ | max | units |
|------------------|---------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| hand soldering   | for maximum 3 seconds                                                                             |     |     | 350 | °C    |
| reel storage     | -5~35°C, 25~80% humidity<br>reel opened: use within 1 month<br>reel unopened: use within 6 months |     |     |     |       |
| reflow soldering | see reflow profile                                                                                |     |     | 260 | °C    |

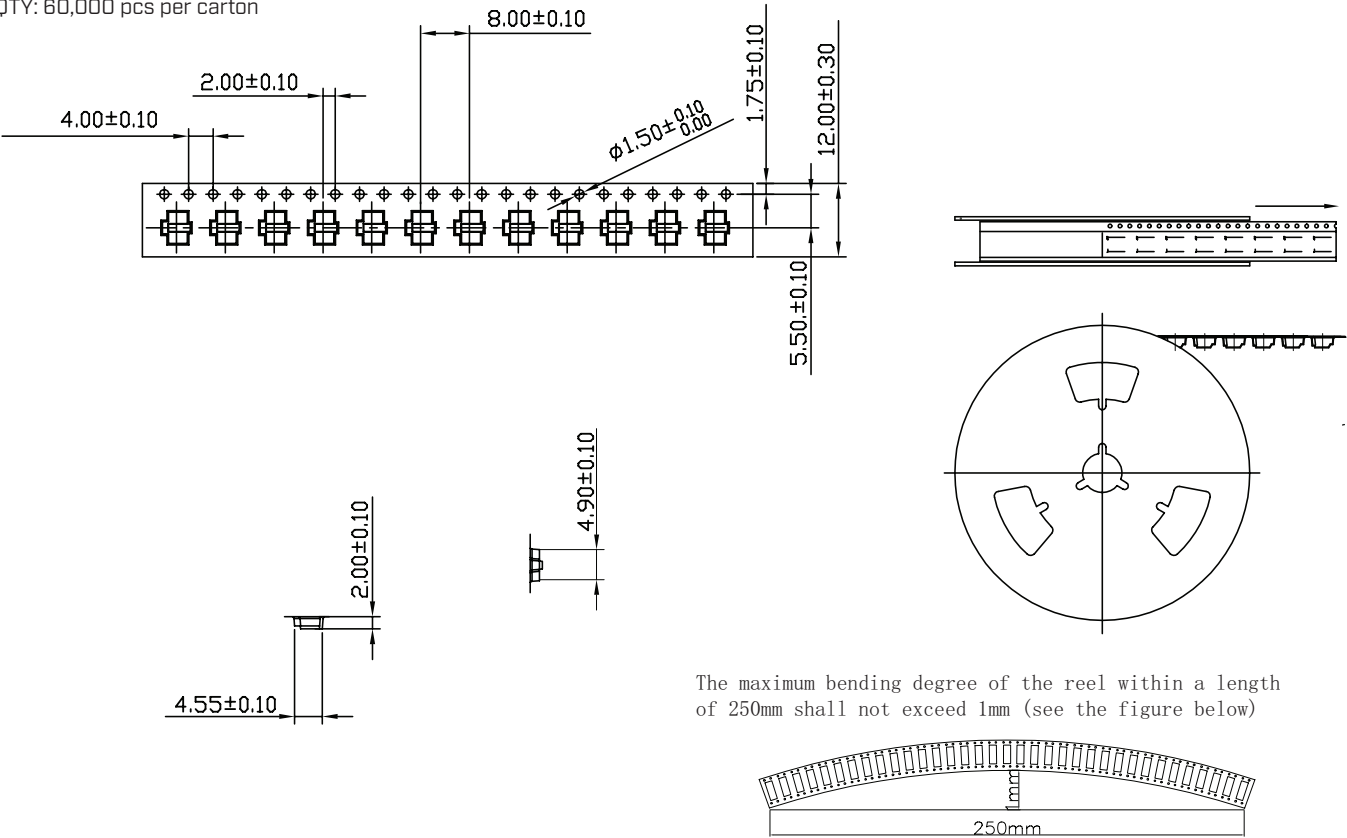
Note: 1. Same Sky recommends usage of the product within 2 hours after T&R is opened. After 6 hours, Same Sky recommends drying the parts prior to use.



PACKAGING

units: mm

Reel Size: Ø330 mm  
Reel QTY: 3,000 pcs per reel  
Carton Size: 430 x 340 x 340 mm  
Carton QTY: 60,000 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/14/2023 |
| 1.01 | CUI Devices rebranded to Same Sky | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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