# SKSH 3.3×2.9mm Low-profile (Surface Mount Type)

## Compact, low-profile type with a height of 0.35mm

## Typical Specifications

| Items | Specifications |
|---|---|
| Rating (max.) | 50mA 12V DC |
| Rating (min.) | 10μA 1V DC |
| Initial contact resistance | 100mΩ max. |
| Travel (mm) | 0.15 |

## Product Line

| Product No. | Operating force | Operating direction | Operating life (5mA 5V DC) | Minimum order unit (pcs.) | |
|---|---|---|---|---|---|
| | | | | Japan | Export |
| **SKSHAAE010** | 1.6N | Top push | 200,000 cycles | 28,000 | 28,000 |
| **SKSHABE010** | 2.35N | | 50,000 cycles | | |

## Packing Specifications

Taping

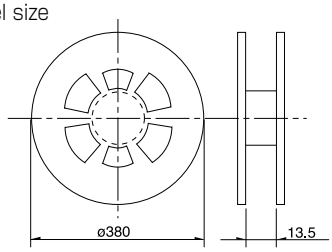
| Number of packages (pcs.) | | | Tape width (mm) | Export package measurements (mm) |
|---|---|---|---|---|
| 1 reel | 1 case / Japan | 1 case / export packing | | |
| 28,000 | 280,000 | 280,000 | 12 | 395×395×205 |

Note

For reels of 330mm diameter, please inquire.

Unit:mm

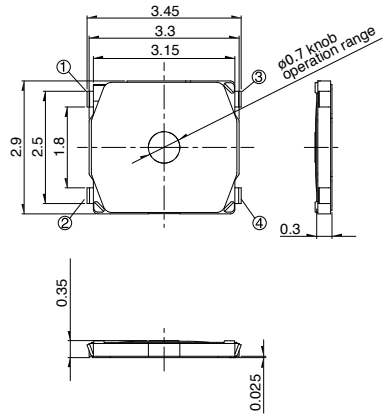
Reel size

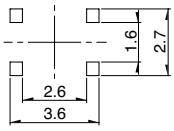



## Dimensions

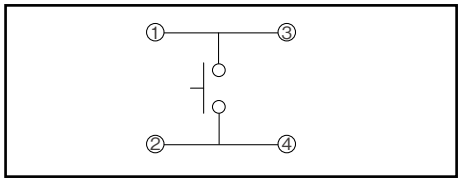
Unit:mm

| Style | PC board land dimensions (Viewed from switch mounting face) |
|---|---|

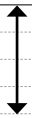



## Circuit Diagram




Refer to P.249 for soldering conditions.

| Type | | Sharp Feeling Type | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Surface Mount | | | | | | |
| Series | | **SKSH** | **SKRW** | **SKRM** | **SKRB** | **SKRR** | **SKQG** | **SKTC** |
| Photo | | | | | | | | |
| Features | | Low-profile | | | | Low-profile and long life | Low-profile | Double action |
| Water-proof | | — | — | — | — | — | — | ● |
| Dust-proof | | — | — | — | — | — | — | ● |
| IP standard | | — | — | — | — | — | — | 67 equivalent |
| Operating direction | Top push | ● | ● | ● | ● | ● | ● | ● |
| | Side push | — | — | — | — | — | — | — |
| Dimensions (mm) | W | 3.3 | □3.7 | □4.5 | □4.8 | 7.5 | □5.2 | 3.4 |
| | D | 2.9 | | | | 7 | | 2.2 |
| | H | 0.35 | | 0.4 | 0.55 | 0.6 | 1.5 | 0.62 |
| Operation force coverage | 1N max. | | | | | |  | See the relevant pages for respective product descriptions |
| | 1N to 2N | | | | | | | |
| | 2N to 3N | | | | | | | |
| | 3N to 4N | | | | | | | |
| | 4N to 5N | | | | | | | |
| Travel (mm) | | 0.15 | | 0.15/0.2 | | 0.25 | | See the relevant pages for respective product descriptions |
| Ground terminal | | — | — | — | — | — | — | — |
| Operating temperature range | | −30℃ to +85℃ | | −40℃ to +85℃ | | | −40℃ to +90℃ | −30℃ to +85℃ |
| Automotive use | | — | — | — | ● | — | ○ | — |
| Life Cycle | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Electrical performance | Rating (max.) (Resistive load) | 50mA 12V DC | | | | | | |
| | Rating (min.) (Resistive load) | 10μA 1V DC | | | | | | |
| | Insulation resistance | 100MΩ min. 100V DC 1min. | | | | | | |
| | Voltage proof | 100V AC 1min. | | | | | 250V AC 1min. | 100V AC 1min. |
| Durability | Vibration | 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively | | | | | | |
| | Lifetime | Shall be in accordance with individual specifications. | | | | | | |
| Environmental performance | Cold | −40℃ 96h | | | | | | |
| | Dry heat | 90℃ 96h | | | | | | |
| | Damp heat | 60℃, 90 to 95%RH 96h | | | | | | |
| Page | | 201 | 202 | 203 | 204 | 205 | 206 | 207 |

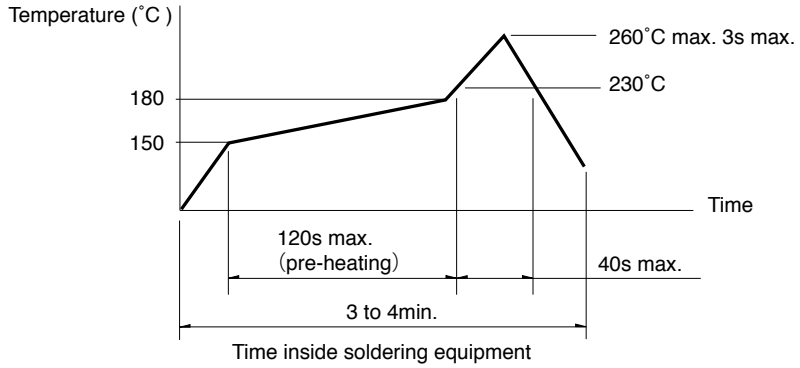
W : Width. The most outer dimension excluding terminal portion.
D : Depth. The most outer dimension excluding terminal portion.
H : Height. The minimum dimension if there are variances.

TACT Switch™ Soldering Conditions · · ·

## Condition for Reflow

Available for Surface Mount Type.

Temperature profile




Notes

1. Please confirm the specifications of our product for the detailed condition.
2. Soldering conditions differ depending on reflow soldering machines.
   Prior verification of soldering condition is highly recommended.

## Conditions for Auto-dip

Available for Snap-in Type and Radial Type.

| Items | Condition |
|---|---|
| Flux built-up | Mounting surface should not be exposed to flux |
| Preheating temperature | Ambient temperature of the soldered surface of PC board. 100℃ max. |
| Preheating time | 60s max. |
| Soldering temperature | 260℃ max. |
| Duration of immersion | 5s max. |
| Number of soldering | 2times max. |

**SKHH Series**

| Items | Condition |
|---|---|
| Flux built-up | Mounting surface should not be exposed to flux |
| Preheating temperature | Ambient temperature of the soldered surface of PC board. 110℃ max. |
| Preheating time | 60s max. |
| Soldering temperature | 260℃ max. |
| Duration of immersion | 5s max. |
| Number of soldering | 2times max. |

**SKHL**Top Push Type, **SKQJ Series**

| Items | Condition |
|---|---|
| Flux built-up | Mounting surface should not be exposed to flux |
| Preheating temperature | Ambient temperature of the soldered surface of PC board. 100℃ max. |
| Preheating time | 45s max. |
| Soldering temperature | 255℃ max. |
| Duration of immersion | 5s max. |
| Number of soldering | 2times max. |

## Manual Soldering

| Items | Condition |
|---|---|
| Soldering temperature | 350℃ max. |
| Duration of soldering | 3s max. |
| Capacity of soldering iron | 60W max. |

**SKHH, SKHW Series**

| Items | Condition |
|---|---|
| Soldering temperature | 360℃ max. |
| Duration of soldering | 3s max. |
| Capacity of soldering iron | 60W max. |

**SKTD, SKTG, SKQJ Series**

| Items | Condition |
|---|---|
| Soldering temperature | 350℃ max. |
| Duration of soldering | 3s max. |
| Capacity of soldering iron | 20W max. |

Notes

1. Prevent flux penetration from the top side of the TACT Switch™.
2. Switch terminals and a PC board should not be coated with flux prior to soldering.
3. The second soldering should be done after the switch is stable with normal temperature.
4. Use the flux with a specific gravity of min 0.81.
   (EC-19S-8 by TAMURA CORPORATION, or equivalents.)