

High operation force satisfies the needs in automotive applications. Wide stem & good mountability



### Typical Specifications



| Items                      | Specifications     |
|----------------------------|--------------------|
| Rating (max.)              | 50mA 16V DC        |
| Rating (min.)              | 10 $\mu$ A 1V DC   |
| Initial contact resistance | 500m $\Omega$ max. |
| Travel (mm)                | 0.2                |

### Product Line

#### Standard type

| Product No.       | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Minimum order unit (pcs.) |       |
|-------------------|-----------------|---------------------|----------------------------|------------|---------------------------|-------|
|                   |                 |                     |                            |            | Japan                     | Japan |
| <b>SKRPABE010</b> | 1.57N           | Top push            | 100,000cycles              | Natural    | 4,000                     | 4,000 |
| <b>SKRPACE010</b> | 2.55N           |                     | 50,000cycles               |            |                           |       |
| <b>SKRPADE010</b> | 4N              |                     | 100,000cycles              | Black      |                           |       |
| <b>SKRPARE010</b> | 5N              |                     | 300,000cycles              |            |                           |       |

#### Long-life type

| Product No.       | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Minimum order unit (pcs.) |       |
|-------------------|-----------------|---------------------|----------------------------|------------|---------------------------|-------|
|                   |                 |                     |                            |            | Japan                     | Japan |
| <b>SKRPANE010</b> | 1.57N           | Top push            | 1,000,000cycles            | Natural    | 4,000                     | 4,000 |
| <b>SKRPASE010</b> | 2.55N           |                     | 500,000cycles              | Black      |                           |       |

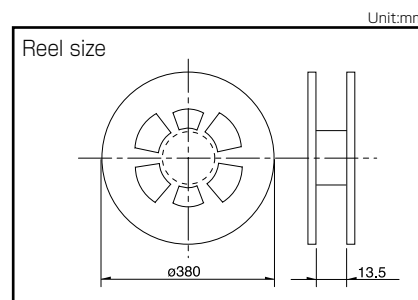
### Packing Specifications

#### Taping

| Number of packages (pcs.) |                |                         | Tape width (mm) | Export package measurements (mm) |
|---------------------------|----------------|-------------------------|-----------------|----------------------------------|
| 1 reel                    | 1 case / Japan | 1 case / export packing |                 |                                  |
| 4,000                     | 40,000         | 40,000                  | 12              | 395×395×205                      |

#### Note

For reels of 330mm diameter, please inquire.



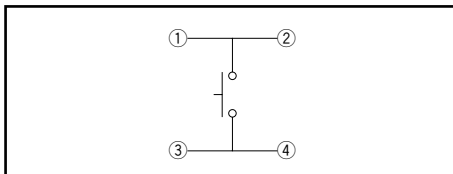
Refer to P.249 for soldering conditions.

■ Dimensions

Unit:mm

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

■ Circuit Diagram



TACT Switch™

















Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

| Type                        |                                   | Sharp Feeling Type   |   |   |   |   |   |   |   |
|-----------------------------|-----------------------------------|--|---|---|---|---|---|---|---|
|                             |                                   | Surface Mount  |   |   |   |   |   |   |   |
| Series                      |                                   | SKRK   | SKTH  | SKRP  | SKQM  | SKQY  | SKTQ  | SKTR  | SKSU  |
| Photo                       |                                   |   |    |    |    |   |    |    |    |
| Features                    |                                   | Compact size<br>Low-profile  | Compact size  | High operation force<br>Compact size  | Compact size  |   | Middle travel   |   |   |
| Water-proof                 |                                   | —  | —   | —   | —   | —   | —   | —   | ●   |
| Dust-proof                  |                                   | —  | ●   | —   | —   | —   | —   | —   | ●   |
| IP standard                 |                                   | —  | —   | —   | —   | —   | —   | —   | 67 equivalent   |
| Operating direction         | Top push                          | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
|                             | Side push                         | —  | —   | —   | —   | —   | —   | —   | —   |
| Dimensions (mm)             | W                                 | 3.9  | 3.5   | 4.2   | 6   | 6.1   | 5.3   | □6.1  | 5.3   |
|                             | D                                 | 2.9  | 3.2   |   | 3.5   | 3.7   | 5.4   |   | 5.4   |
|                             | H                                 | 1.5/2  | 1.8/2.5   | 2.5   | 4.3/5   | 2.5   | 4.25  | 4.1   | 3.85/4.34   |
| Operation force coverage    | 1N max.                           | ↕  | ↕   | ↕   | ↕   | ↕   | ↕   | ↕   | ↕   |
|                             | 1N to 2N                          |  |   |   |   |   |   |   |   |
|                             | 2N to 3N                          |  |   |   |   |   |   |   |   |
|                             | 3N to 4N                          |  |   |   |   |   |   |   |   |
| 4N to 5N                    |                                   |  |   |   |   |   |   |   |   |
| Travel (mm)                 |                                   | 0.13   | 0.12  | 0.2   | 0.25  |   | 0.71  | 0.72  | 0.7/0.9   |
| Ground terminal             |                                   | —  | —   | —   | —   | ○   | —   | —   | —   |
| Operating temperature range |                                   | -40°C to +85°C   |   |   | -40°C to +90°C  |   |   |   |   |
| Automotive use              |                                   | —  | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| Life Cycle                  |                                   |   |  |  |  |  |  |  |  |
| Electrical performance      | Rating (max.)<br>(Resistive load) | 50mA 12V DC  | 25mA 16V DC   | 50mA 16V DC   | 50mA 12V DC   |   | 50mA 16V DC   |   |   |
|                             | Rating (min.)<br>(Resistive load) | 10μA 1V DC   |   |   |   |   |   |   |   |
|                             | Insulation resistance             | 100MΩ min. 100V DC 1min.   |   |   |   |   |   |   |   |
|                             | Voltage proof                     | 250V AC 1min.  | 100V AC 1min.   | 250V 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°C 96h  |   | -40°C 1,000h  | -40°C 96h   |   | -40°C 1,000h  |   |   |
|                             | Dry heat                          | 90°C 96h   |   | 90°C 1,000h   | 90°C 96h  |   | 90°C 1,000h   |   |   |
|                             | Damp heat                         | 60°C, 90 to 95%RH 96h  |   | 60°C, 90 to 95%RH 1,000h  | 60°C, 90 to 95%RH 96h   |   | 60°C, 90 to 95%RH 1,000h  |   |   |
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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.

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#### Notes

- The automotive operating temperature range to be individually discussed upon request.
- Indicates applicability to all products in the series, while ○ indicates applicability to some products in the series.

## 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°C max. |
| Preheating time        | 60s max.  |
| Soldering temperature  | 260°C 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°C max. |
| Preheating time        | 60s max.  |
| Soldering temperature  | 260°C 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°C max. |
| Preheating time        | 45s max.  |
| Soldering temperature  | 255°C max.  |
| Duration of immersion  | 5s max.   |
| Number of soldering    | 2times 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.)

## Manual Soldering

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

### SKHH, SKHW Series

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

### SKTD, SKTG, SKQJ Series

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



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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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