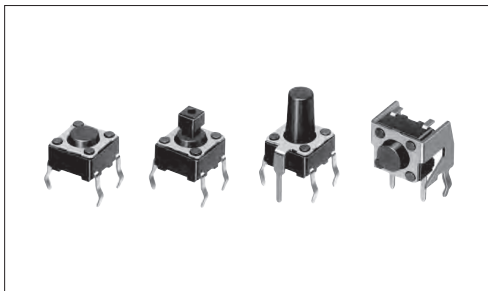


User friendly 6.0×6.0mm type, available  
in a wide variety



#### Typical Specifications



| Items                      | Specifications |
|----------------------------|----------------|
| Rating (max.)              | 50mA 12V DC    |
| Rating (min.)              | 10μA 1V DC     |
| Initial contact resistance | 100mΩ max.     |
| Travel (mm)                | 0.25           |

#### Product Line

Top push type

| Product No. | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Height  | Minimum order unit (pcs.) |        | Drawing No. |
|-------------|-----------------|---------------------|----------------------------|------------|---------|---------------------------|--------|-------------|
|             |                 |                     |                            |            |         | Japan                     | Export |             |
| SKHHAJA010  | 0.98N           | Top push            | 1,000,000 cycles           | Black      | h=4.3mm | 1,000                     | 1,000  | 1           |
| SKHHALA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHAQA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |
| SKHHAKA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | h=5mm   |                           |        |             |
| SKHHAMA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHARA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |
| SKHHCQA010  | 3.53N           |                     |                            | Orange     |         |                           |        |             |
| SKHHCRA010  | 5.10N           |                     |                            | Yellow     |         |                           |        |             |
| SKHHBVA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | h=7mm   |                           |        |             |
| SKHHBWA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHBYA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |
| SKHHANA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | h=9.5mm |                           |        |             |
| SKHHAPA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHBSA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |
| SKHHDTA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | h=13mm  |                           |        |             |
| SKHHDUA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHDHA010  | 0.98N           |                     |                            | Black      | h=17mm  |                           |        |             |
| SKHHDJA010  | 1.57N           |                     | 300,000 cycles             | Dark gray  |         |                           |        |             |

Joint stem type

| Product No. | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Height  | Minimum order unit (pcs.) |        | Drawing No. |
|-------------|-----------------|---------------------|----------------------------|------------|---------|---------------------------|--------|-------------|
|             |                 |                     |                            |            |         | Japan                     | Export |             |
| SKHHCWA010  | 0.98N           | Top push            | 1,000,000 cycles           | Black      | h=7.3mm | 1,000                     | 1,000  | 2           |
| SKHHDAA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHDGA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |

Refer to P.235 for soldering conditions.

## ■ Product Line

With ground terminal type

| Product No. | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Height  | Minimum order unit (pcs.) |        | Drawing No. |
|-------------|-----------------|---------------------|----------------------------|------------|---------|---------------------------|--------|-------------|
|             |                 |                     |                            |            |         | Japan                     | Export |             |
| SKHHPJA010  | 0.98N           | Top push            | 1,000,000 cycles           | Black      | h=4.3mm | 1,000                     | 1,000  | 3           |
| SKHHPLA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHPQA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |
| SKHHPKA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | h=5mm   |                           |        |             |
| SKHHPPA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHPPRA010 | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |
| SKHHQVA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | h=7mm   |                           |        |             |
| SKHHQWA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHQYA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |
| SKHHPNA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | h=9.5mm |                           |        |             |
| SKHHPPA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |         |                           |        |             |
| SKHHQNA010  | 2.55N           |                     | 200,000 cycles             | Red        |         |                           |        |             |

## Side push type

| Product No. | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Stem length | Minimum order unit (pcs.) |        | Drawing No. |
|-------------|-----------------|---------------------|----------------------------|------------|-------------|---------------------------|--------|-------------|
|             |                 |                     |                            |            |             | Japan                     | Export |             |
| SKHHLMA010  | 0.98N           | Side push           | 1,000,000 cycles           | Black      | ℓ=3.85mm    | 1,000                     | 1,000  | 4           |
| SKHHLNA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |             |                           |        |             |
| SKHHLPA010  | 2.55N           |                     | 200,000 cycles             | Red        |             |                           |        |             |
| SKHHLQA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | ℓ=8.35mm    |                           |        |             |
| SKHHLRA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |             |                           |        |             |
| SKHHLSA010  | 2.55N           |                     | 200,000 cycles             | Red        |             |                           |        |             |
| SKHHLUA010  | 0.98N           |                     | 1,000,000 cycles           | Black      | ℓ=5.85mm    |                           |        |             |
| SKHHLVA010  | 1.57N           |                     | 500,000 cycles             | Dark gray  |             |                           |        |             |
| SKHHLWA010  | 2.55N           |                     | 200,000 cycles             | Red        |             |                           |        |             |
| SKHHNHA010  | 0.98N           |                     | 500,000 cycles             | Black      | ℓ=15.85mm   |                           |        |             |
| SKHHNJA010  | 1.57N           |                     | 300,000 cycles             | Dark gray  |             |                           |        |             |
| SKHHNKA010  | 2.55N           |                     | 200,000 cycles             | Red        |             |                           |        |             |

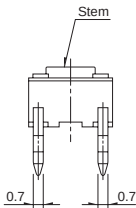
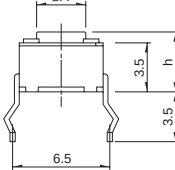
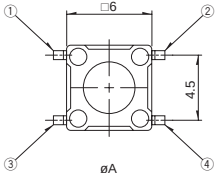
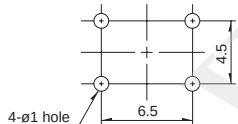
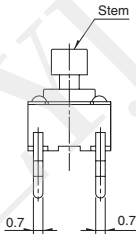
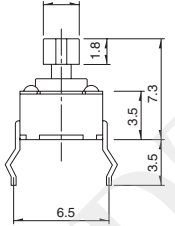
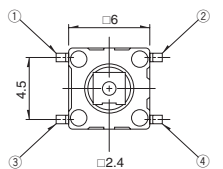
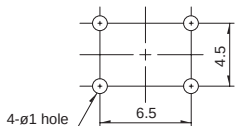
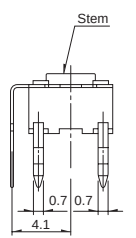
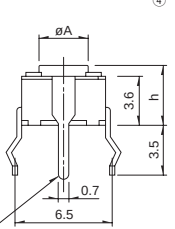
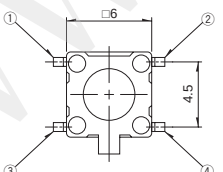
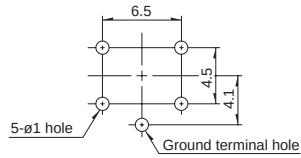
## ■ Packing Specifications

Bulk

| Product No.                                                  | Number of packages (pcs.) |                        | Export package measurements (mm) |
|--------------------------------------------------------------|---------------------------|------------------------|----------------------------------|
|                                                              | 1 case /Japan             | 1 case /export packing |                                  |
| Other                                                        | 10,000                    | 30,000                 | 309×476×347                      |
| SKHHDT, SKHHDU<br>SKHHDH, SKHHDJ<br>SKHHNH, SKHHNJ<br>SKHHNK | 5,000                     | 15,000                 |                                  |

■ Dimensions

Unit:mm

| No. | Photo                                                                               | Style                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PC board mounting hole dimensions<br>(Viewed from switch mounting face)               |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-----|-----|---|-----|---|-----|-----|---|---------------------------------------------------------------------------------------|---|----|---|-------------------------------------------------------------------------------------|
| 1   |    | <div></div> <table><tr><th>h</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5</td><td>3.5</td></tr><tr><td>7</td><td>3.3</td></tr><tr><td>9.5</td><td>3</td></tr><tr><td>13</td><td>3</td></tr><tr><td>17</td><td>3</td></tr></table> | h                                                                                     | A | 4.3 | 3.5 | 5 | 3.5 | 7 | 3.3 | 9.5 | 3 | 13                                                                                    | 3 | 17 | 3 |  |
| h   | A                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 4.3 | 3.5                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 5   | 3.5                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 7   | 3.3                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 9.5 | 3                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 13  | 3                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 17  | 3                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 2   |  | <div></div>                                                                                                                                                                                                                                   |  |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 3   |  | <div></div> <table><tr><th>h</th><th>A</th></tr><tr><td>4.3</td><td>3.5</td></tr><tr><td>5</td><td>3.5</td></tr><tr><td>7</td><td>3.3</td></tr><tr><td>9.5</td><td>3</td></tr></table>                                                       | h                                                                                     | A | 4.3 | 3.5 | 5 | 3.5 | 7 | 3.3 | 9.5 | 3 |  |   |    |   |                                                                                     |
| h   | A                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 4.3 | 3.5                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 5   | 3.5                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 7   | 3.3                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |
| 9.5 | 3                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |     |     |   |     |   |     |     |   |                                                                                       |   |    |   |                                                                                     |

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

# SKHH 6mm Square (Snap-in Type)

TACT Switch™

Sharp Feeling

Soft Feeling

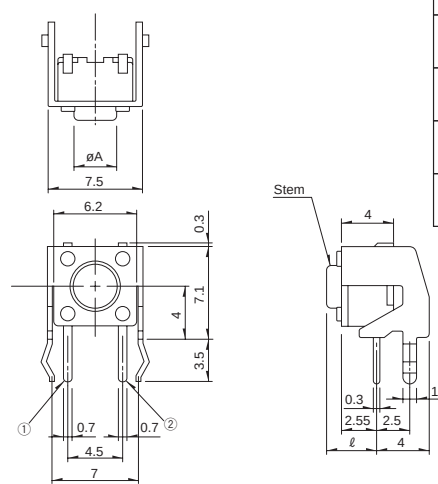
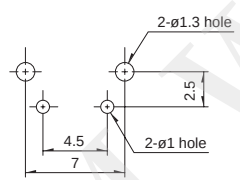
Snap-in Type

Surface Mount type

Radial Type

## ■ Dimensions

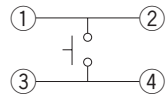
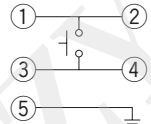
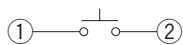
Unit:mm

| No. | Photo                                                                             | Style                                                                               | PC board mounting hole dimensions<br>(Viewed from switch mounting face) |     |
|-----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----|
| 4   |  |    | $\ell$                                                                  | A   |
|     |                                                                                   |                                                                                     | 3.85                                                                    | 3.5 |
|     |                                                                                   |                                                                                     | 5.85                                                                    | 3.3 |
|     |                                                                                   |                                                                                     | 8.35                                                                    | 3   |
|     |                                                                                   |                                                                                     | 15.85                                                                   | 3   |
|     |                                                                                   |  |                                                                         |     |

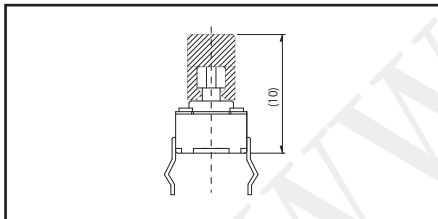
## Note

Please use 1.6mm thick PC boards.

## ■ Circuit Diagram

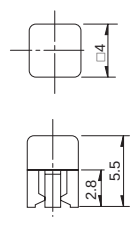
|                                                                                                                        |                                                                                                                  |                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Top push type / Joint stem type<br> | With ground terminal type<br> | Side push type<br> |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|

## ■ Height with Keytop



## ■ Keytop Lineup

Unit:mm

| Applicable model                          | Dimensions                                                                          | Variety                                 |                                                                    |
|-------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------|
|                                           |                                                                                     | Color                                   | Model                                                              |
| SKHH<br><br>Applicable to joint stem type |  | Red<br>Blue<br>Ivory<br>Black<br>Yellow | SK2AA00410<br>SK2AA00420<br>SK2AA00430<br>SK2AA00440<br>SK2AA00450 |

## Note

Keytops are not attached to switches on delivery.

# TACT Switch™

## List of Varieties

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

| Type                        |                                | Sharp Feeling Type                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|-----------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                             |                                | Snap-in                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| Series                      |                                | SKHL                                                                                                                             | SKHH                                                                                | SKHW                                                                                | SKQJ                                                                                | SKQB                                                                                  | SKQE                                                                                  | SKHC                                                                                  |
| Photo                       |                                |                                                 |    |    |    |    |    |    |
| Features                    |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                     | Long-life                                                                             | —                                                                                     |
| Water-proof                 |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                   | ●                                                                                     | —                                                                                     | —                                                                                     |
| Dustproof                   |                                | —                                                                                                                                | —                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                     | ●                                                                                     | —                                                                                     |
| IP standard                 |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     | —                                                                                     |
| Operating direction         | Top push                       | ●                                                                                                                                | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                     | ●                                                                                     | ●                                                                                     |
|                             | Side push                      | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     | —                                                                                     |
| Dimensions (mm)             | W                              | 6                                                                                                                                | □6                                                                                  |                                                                                     | □6.6                                                                                | □10                                                                                   | □12                                                                                   |                                                                                       |
|                             | D                              | 3.5                                                                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                             | H                              | 4.3/5                                                                                                                            | See the relevant pages for respective product descriptions                          | 4.3/5                                                                               | 5                                                                                   | 5/13/23.2                                                                             | See the relevant pages for respective product descriptions                            |                                                                                       |
| Operation force coverage    | 1N max.                        |                                                 |    |    |    |    |    |    |
|                             | 1N to 2N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                             | 2N to 3N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                             | 3N to 4N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                             | 4N to 5N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| Travel (mm)                 |                                | 0.25                                                                                                                             |                                                                                     | 0.3                                                                                 | 0.25                                                                                | 0.3                                                                                   |                                                                                       |                                                                                       |
| Ground terminal             |                                | —                                                                                                                                | ○                                                                                   | —                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     | —                                                                                     |
| Operating temperature range |                                | -40℃ to +90℃                                                                                                                     |                                                                                     |                                                                                     | -20℃ to +70℃                                                                        | -40℃ to +90℃                                                                          |                                                                                       | -40℃ to +85℃                                                                          |
| Automotive use              |                                | ●                                                                                                                                | ●                                                                                   | —                                                                                   | —                                                                                   | ●                                                                                     | —                                                                                     | —                                                                                     |
| Life Cycle                  |                                |                                               |  |  |  |  |  |  |
| 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                  | 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℃ 96h                                                                                                                         |                                                                                     |                                                                                     | -30℃ 96h                                                                            | -40℃ 96h                                                                              |                                                                                       |                                                                                       |
|                             | Dry heat                       | 90℃ 96h                                                                                                                          |                                                                                     |                                                                                     | 80℃ 96h                                                                             | 90℃ 96h                                                                               |                                                                                       |                                                                                       |
|                             | Damp heat                      | 60℃, 90 to 95%RH 96h                                                                                                             |                                                                                     |                                                                                     |                                                                                     | 60℃, 90 to 95%RH 1,000h                                                               | 60℃, 90 to 95%RH 96h                                                                  |                                                                                       |
| Page                        |                                | 173                                                                                                                              | 175                                                                                 | 179                                                                                 | 180                                                                                 | 182                                                                                   | 184                                                                                   | 186                                                                                   |

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 . . . . . 235  
TACT Switch™ Cautions . . . . . 236

### Notes

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

| Type                        |                                | Sharp Feeling Type                                                                                                               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-----------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                             |                                | Snap-in                                                                                                                          |                                                                                     |                                                                                     |                                                                                       | Radial                                                                                |
| Series                      |                                | SKHL                                                                                                                             | SKHH                                                                                | SKQJ                                                                                | SKQB                                                                                  | SKRC                                                                                  |
| Photo                       |                                |                                                 |    |    |    |    |
| Features                    |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                     | Round terminal type                                                                   |
| Water-proof                 |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | ●                                                                                     | ●                                                                                     |
| Dustproof                   |                                | —                                                                                                                                | —                                                                                   | ●                                                                                   | ●                                                                                     | ●                                                                                     |
| IP standard                 |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     |
| Operating direction         | Top push                       | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                     | ●                                                                                     |
|                             | Side push                      | ●                                                                                                                                | ●                                                                                   | ●                                                                                   | ●                                                                                     | —                                                                                     |
| Dimensions (mm)             | W                              | 7.3                                                                                                                              | 7.5                                                                                 | 7.5                                                                                 | 11.5                                                                                  | φ9                                                                                    |
|                             | D                              | 7.22                                                                                                                             | 7.85                                                                                | 7.85                                                                                | 11.9                                                                                  |                                                                                       |
|                             | H                              | 4.3                                                                                                                              | 7.4                                                                                 | 7.3                                                                                 | 11.3                                                                                  |                                                                                       |
| Operation force coverage    | 1N max.                        |                                                 |    |    |    |    |
|                             | 1N to 2N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | 2N to 3N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | 3N to 4N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | 4N to 5N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Travel (mm)                 |                                | 0.25                                                                                                                             |                                                                                     |                                                                                     | 0.3                                                                                   | 0.25                                                                                  |
| Ground terminal             |                                | ●                                                                                                                                | ●                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     |
| Operating temperature range |                                | -40℃ to +90℃                                                                                                                     |                                                                                     | -20℃ to +70℃                                                                        | -40℃ to +95℃                                                                          | -30℃ to +85℃                                                                          |
| Automotive use              |                                | ●                                                                                                                                | ●                                                                                   | —                                                                                   | ●                                                                                     | —                                                                                     |
| Life Cycle                  |                                |                                               |  |  |  |  |
| 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                  | 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℃ 96h                                                                                                                         |                                                                                     | -30℃ 96h                                                                            | -40℃ 96h                                                                              |                                                                                       |
|                             | Dry heat                       | 90℃ 96h                                                                                                                          |                                                                                     | 80℃ 96h                                                                             | 90℃ 96h                                                                               |                                                                                       |
|                             | Damp heat                      | 60℃, 90 to 95%RH 96h                                                                                                             |                                                                                     |                                                                                     | 60℃, 90 to 95%RH 1,000h                                                               |                                                                                       |
| Page                        |                                | 173                                                                                                                              | 175                                                                                 | 180                                                                                 | 182                                                                                   | 228                                                                                   |

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 | 235 |
| TACT Switch™ Cautions             | 236 |

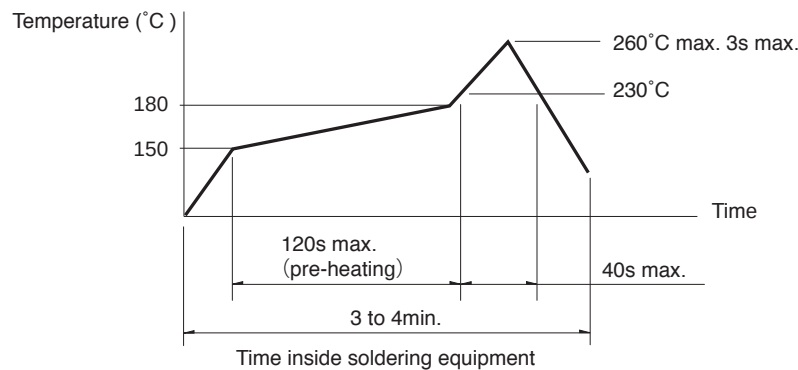
#### Notes

1. The automotive operating temperature range to be individually discussed upon request.
2. ● Indicates applicability to all 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.                                                         |

#### SKHLTop 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, SKSN Series

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