



## ■ Typical Specifications

| Items                      | Specifications      |
|----------------------------|---------------------|
| Rating (max.)              | 50mA 12V DC         |
| Rating (min.)              | 10 $\mu$ A 1V DC    |
| Initial contact resistance | 100m $\Omega$ max.  |
| Travel (mm)                | 1st 0.25<br>All 0.4 |

## ■ Product Line

| Product No. | Operating force        | Operating direction | Operating life<br>(5mA 5V DC) | Guide bosses | Minimum order unit (pcs.) |        |
|-------------|------------------------|---------------------|-------------------------------|--------------|---------------------------|--------|
|             |                        |                     |                               |              | Japan                     | Export |
| SKRNP AE010 | 1st 0.78N<br>2nd 2.45N | Top push            | 30,000 cycles                 | Without      | 5,000                     | 5,000  |
| SKRNP BE010 |                        |                     |                               | With         |                           |        |
| SKRNP CE010 | 1st 0.78N<br>2nd 1.57N |                     |                               | Without      |                           |        |
| SKRNP DE010 |                        |                     | Without                       |              |                           |        |
| SKRNP EE010 | 1st 0.59N<br>2nd 1.57N |                     | 100,000 cycles                | With         |                           |        |
| SKRNP ME010 |                        |                     |                               | With         |                           |        |

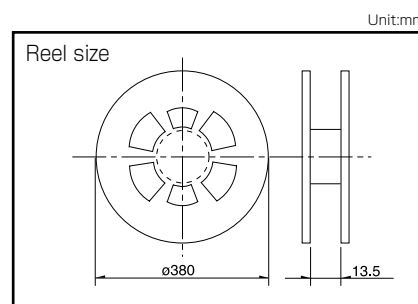
## ■ Packing Specifications

## Taping

| Number of packages (pcs.) |                |                         | Tape width<br>(mm) | Export package<br>measurements (mm) |
|---------------------------|----------------|-------------------------|--------------------|-------------------------------------|
| 1 reel                    | 1 case / Japan | 1 case / export packing |                    |                                     |
| 5,000                     | 50,000         | 50,000                  | 12                 | 395×395×205                         |

## Note

For reels of 330mm diameter, please inquire.



## ■ Dimensions

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

## ■ Circuit Arrangement

| Switch circuit configuration | (1st action) | (2nd action) |
|------------------------------|--------------|--------------|
|                              |              |              |

Refer to P.249 for soldering conditions.

# TACT Switch™

## List of Varieties

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-In Type

Surface Mount Type

Radial Type

| Type                        |                                | Sharp Feeling Type                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|-----------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                             |                                | Surface Mount                                                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| Series                      |                                | SKSD                                                                                                                             | SKRN                                                                                | SKTA                                                                                | SKSV                                                                                | SKSW                                                                                  | SKTK                                                                                  | SKSG                                                                                  |
| Photo                       |                                |                                                 |    |    |    |    |    |    |
| Features                    |                                | Double action                                                                                                                    |                                                                                     | Compact size<br>Low-profile                                                         |                                                                                     |                                                                                       | Long life                                                                             | High operation force<br>Compact size                                                  |
| Water-proof                 |                                | —                                                                                                                                | —                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                     | ●                                                                                     | —                                                                                     |
| Dust-proof                  |                                | —                                                                                                                                | —                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                     | ●                                                                                     | —                                                                                     |
| IP standard                 |                                | —                                                                                                                                | —                                                                                   | 67 equivalent<br>68 equivalent in some cases                                        | 67 equivalent                                                                       | 67 equivalent<br>68 equivalent in some cases                                          | 67 equivalent                                                                         | —                                                                                     |
| Operating direction         | Top push                       | ●                                                                                                                                | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                     | ●                                                                                     | ●                                                                                     |
|                             | Side push                      | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     | —                                                                                     |
| Dimensions (mm)             | W                              | 4.1                                                                                                                              | □6                                                                                  | 2.6                                                                                 | 2.8                                                                                 | 3                                                                                     | 5.9                                                                                   | 3                                                                                     |
|                             | D                              | 3.9                                                                                                                              |                                                                                     | 1.6                                                                                 | 1.9                                                                                 | 2                                                                                     | 4                                                                                     | 2.7                                                                                   |
|                             | H                              | 0.6                                                                                                                              |                                                                                     | 0.9                                                                                 | 0.53                                                                                | 0.55                                                                                  | 0.6                                                                                   | 0.78                                                                                  |
| 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)                 |                                | See the relevant pages for respective product descriptions                                                                       |                                                                                     | 0.11                                                                                | 0.12                                                                                | See the relevant pages for respective product descriptions                            | 0.25                                                                                  | 0.12                                                                                  |
| Ground terminal             |                                | ●                                                                                                                                | ●                                                                                   | —                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     | ○                                                                                     |
| Operating temperature range |                                | −40℃ to +90℃                                                                                                                     |                                                                                     | −30℃ to +85℃                                                                        |                                                                                     |                                                                                       |                                                                                       | −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                  | 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                        |                                | 208                                                                                                                              | 209                                                                                 | 210                                                                                 | 212                                                                                 | 213                                                                                   | 215                                                                                   | 216                                                                                   |

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 | 249 |
| TACT Switch™ Cautions             | 250 |

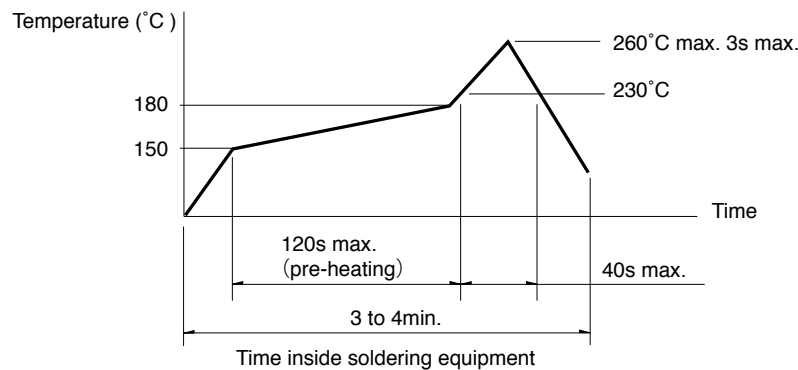
### Notes

- 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.                                                         |

### 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 Series

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

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)