

# TACT Switch™ 5.9 × 2.87mm Sidepush™ Double Action (Surface Mount Type)

SKSE Series



Mid-mount solution of 1.1mm switch height from PCB.

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

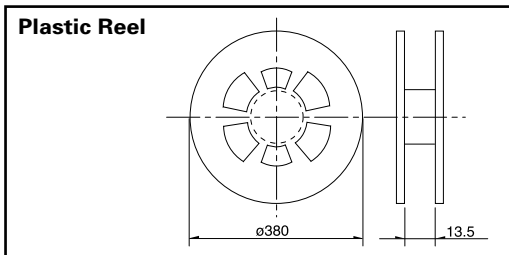


## Product Line

| Product No. | Operating force      | Operating direction | Travel (mm)          | Rating (max.)  | Rating (min.) | Operating life (5mA 5V DC) | Initial contact resistance | Minimum order unit (pcs.) |
|-------------|----------------------|---------------------|----------------------|----------------|---------------|----------------------------|----------------------------|---------------------------|
| SKSELAE010  | 1st 0.8N<br>2nd 1.8N | Horizontal          | 1st 0.15<br>All 0.25 | 50mA<br>12V DC | 10μA<br>1V DC | 100,000cycles              | 500m max.                  | 3,400                     |

## Specification of Embossed Taping Package (Taping Packaging for Auto-insertion)

Reel Size Unit:mm



| Number of packages ( pcs. ) |               |                        | Tape width ( mm ) |
|-----------------------------|---------------|------------------------|-------------------|
| 1 reel                      | 1 case /Japan | 1 case /export packing |                   |
| 3,400                       | 34,000        | 34,000                 | 12                |

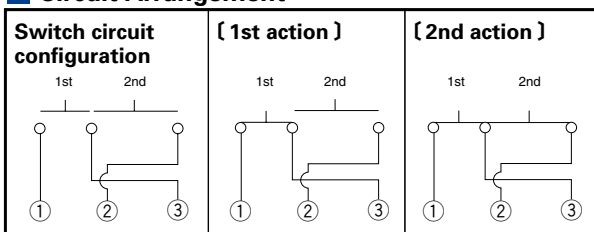
- Sharp Feeling
- Soft Feeling
- Snap-in Type
- Surface Mount Type
- Radial Type

## Dimensions

Unit:mm

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

## Circuit Arrangement














## Note

- Please place purchase orders for taping products per minimum order unit (1 reel or a case).
- For 330mm diameter reel requirements, please contact us.

Refer to P.306 for soldering conditions.

# List of Varieties

## Sharp Feeling Type

| Series                      |                       | SKSD  | SKRN  | SKSE  | SPEE  | SKRK  | SKRP  | SKQM   | SKQY  | SKRA  | SKHM  | SKHU  |   |
|-----------------------------|-----------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Photo                       |                       |    |  |  |  |  |  |  |  |  |  |  |   |
| Type                        |                       | Surface mount   |   |   |   |   |   |  |   |   |   |   |   |
| Features                    |                       | Double action   |   | Horizontal type<br>Double action  |   | Compact size<br>Low-profile   | High operation force<br>Compact size  | Compact size   |   | Middle stroke   | Dust-proof type is available  |   |   |
| Operating direction         | Vertical              |   |   |   |   |   |   |  |   |   |   |   |   |
|                             | Horizontal            |   |   |   |   |   |   |  |   |   |   |   |   |
| Dimensions (mm)             | W                     | 4.1   | 6   | 5.9   | 4   | 3.9   | 4.2   | 6  | 6.1   | 6.2   | 6.2   |   |   |
|                             | D                     | 3.9   |   | 2.87  | 5   | 2.9   | 3.2   | 3.5  | 3.7   |   | 6.5   |   |   |
|                             | H                     | 0.6   | 0.9   | 3   | 1.22  | 1.5   | 2.5   | 4.3  | 2.5   | 3.4   | 3.1   | 2.5   |   |
| Operation force coverage    |                       | 1N  |   |   |   | See the relevant pages for respective product descriptions                        |   | ↕  | ↕   | ↕   | ↕   | ↕   | ↕ |
|                             |                       | 5N  |   |   |   |   |   | ↕  | ↕   | ↕   | ↕   | ↕   |   |
| Ground terminal             |                       |   |   |   |   |   |   |  |   |   |   |   |   |
| Operating temperature range |                       | -30 to +85  |   |   | -10 to +60  |   | -30 to +85  |  |   |   |   |   |   |
| Electrical performance      | Insulation resistance | 100M min. 100V DC   |   |   | 10M min. 100V DC  |   | 100M min. 100V DC   |  |   |   |   |   |   |
|                             | Voltage proof         | 250V AC for 1min.<br>SKSD/SE : 100V AC for 1min.  |   |   | 100V AC for 1min.   |   | 250V AC for 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 2hours respectively |   |   |   |   |   |  |   |   |   |   |   |
|                             | Lifetime              | Shall be in accordance with individual specifications.  |   |   |   |   |   |  |   |   |   |   |   |
| Environmental performance   | Cold                  | -30 ± 2 for 96h   |   |   | -40 ± 2 for 96h   |   | -30 ± 2 for 96h   |  |   |   |   |   |   |
|                             | Dry heat              | 80 ± 2 for 96h  |   |   | 85 ± 2 for 96h  |   | 80 ± 2 for 96h  |  |   |   |   |   |   |
|                             | Damp heat             | 60 ± 2 , 90 to 95%RH for 96h  |   |   | 40 ± 2 , 90 to 95%RH for 96h  |   | 60 ± 2 , 90 to 95%RH for 96h  |  |   |   |   |   |   |
| Page                        |                       | 278   | 279   | 280   | 84  | 281   | 282   | 283  | 284   | 285   | 286   | 287   |   |

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 .....306  
 TACT Switch™ Cautions .....307  
 Product Line of Knob for TACT Switch™ .....308

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

- Sharp Feeling
- Soft Feeling
- Snap-in Type
- Surface Mount Type
- Radial Type

### Note

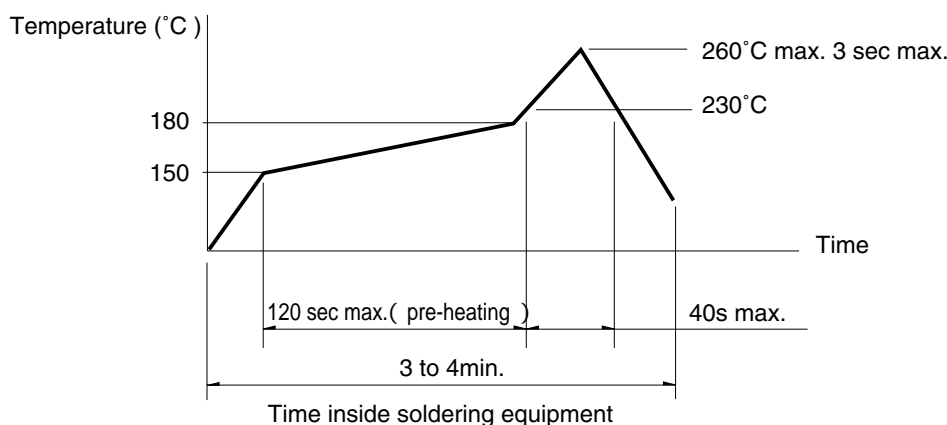
The automotive operating temperature range to be individually discussed upon request.

## Soldering Conditions

### Condition for Reflow

Available for Surface Mount Type.

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple 0.1 to 0.2 CA(K) or CC(T) at solder joints( copper foil surface ). A heat resistive tape should be used to fix thermocouple.
3. Temperature profile



### Note

1. The above temperature shall be measured on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size, thickness of PC boards and others. The above-stated conditions shall also apply to switch surface temperatures.
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  
(Except SKHJ, SKHL, SKQJ, SKQK, SKEG 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.<br>100 max. |
| Preheating time        | 60s max.   |
| Soldering temperature  | 260 max.   |
| Duration of immersion  | 5s max.  |
| Number of soldering    | 2times max.  |

### Manual Soldering ( Except SKRT Series )

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

### Notes

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

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

- Sharp Feeling
- Soft Feeling
- Snap-in Type
- Surface Mount Type
- Radial Type

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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

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