



■ Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10µA 1V DC
Initial contact resistance	100mΩ max.
Travel (mm)	1st 0.25 All 0.4

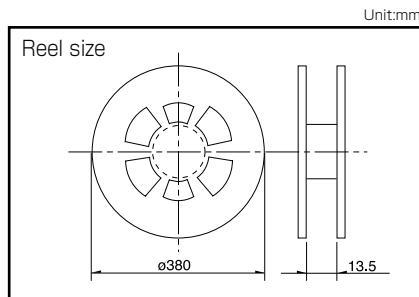
■ Product Line

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Guide bosses	Minimum order unit (pcs.)			
					Japan	Export		
SKRNPAE010	1st 0.78N 2nd 2.45N	Top push	30,000 cycles	Without	5,000	5,000		
SKRNPBE010				With				
SKRNPCE010	1st 0.78N 2nd 1.57N			Without				
SKRNPDE010	100,000 cycles		With					
SKRNPPE010			1st 0.59N 2nd 1.57N					
SKRNPME010								

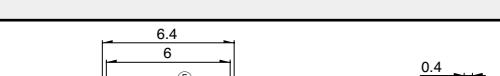
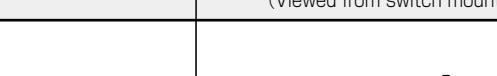
■ Packing Specifications

Taping

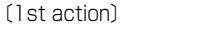
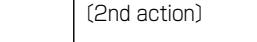
Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan	1 case / export packing		
5,000	50,000	50,000	12	395×395×205



■ Dimensions

Dimensions	Unit:mm	Style	PC board mounting hole and land dimensions (Viewed from switch mounting face)
 <p>Technical drawing of the switch assembly showing dimensions for the housing, mounting holes, and knob operation range. The drawing includes:</p> <ul style="list-style-type: none"> Overall width: 6.4 mm Overall height: 6.0 mm Mounting hole dimensions: 0.6 mm diameter, 0.6 mm depth, 0.6 mm width, and 0.9 mm height. Knob operation range: 0.4 mm height, 0.65 mm width, and 1.25 mm depth. Guide bosses: 0.6 mm width and 0.6 mm height. Mounting hole dimensions: 0.4 mm height, 0.85 mm width, and 1.45 mm depth. 	 <p>Technical drawing of the PC board showing the mounting hole and land dimensions. The drawing includes:</p> <ul style="list-style-type: none"> Ground terminal land dimensions: 7 mm width, 4.8 mm height, 1 mm depth, and 0.75 mm hole diameter. PC board dimensions: 6.8 mm width, 5.4 mm height, 1.45 mm depth, and 0.6 mm width. Mounting hole dimensions: 0.95 mm hole diameter and 0.6 mm depth. Ground terminal land dimensions: 3.5 mm width, 5.5 mm height, and 0.6 mm depth. 		

■ Circuit Arrangement

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

Refer to P.249 for soldering conditions.

Type		Sharp Feeling Type											
		Surface Mount											
Series		SKSD	SKRN	SKTA	SKSV	SKSW	SKTK	SKSG					
Photo													
Features		Double action			Compact size Low-profile		Long life	High operation force Compact size					
Water-proof		—	—	●	●	●	●	—					
Dust-proof		—	—	●	●	●	●	—					
IP standard		—	—	67 equivalent 68 equivalent in some cases	67 equivalent	67 equivalent 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	1.4					
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°C to +90°C		-30°C to +85°C				-40°C to +85°C					
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.											
Durability	Voltage proof	100V AC 1min.	250V AC 1min.	100V AC 1min.									
	Vibration	10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively											
	Lifetime	Shall be in accordance with individual specifications.											
Environmental performance	Cold	-40°C 96h											
	Dry heat	90°C 96h											
	Damp heat	60°C, 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

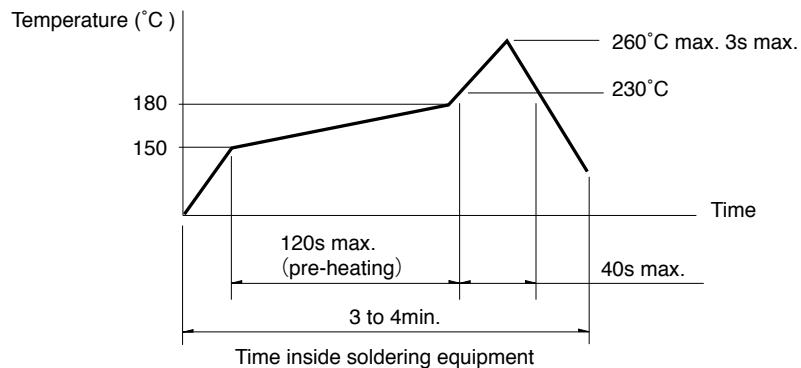
Notes

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.

Condition for Reflow

Available for Surface Mount Type.
Temperature profile



Notes

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

Conditions for Auto-dip

Available for Snap-in Type and Radial Type.

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

SKHH Series

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

SKHL Top Push Type, SKQJ Series

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

Notes

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

Manual Soldering

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

SKHH, SKHW Series

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

SKTD, SKTG, SKQJ Series

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

Mouser Electronics

Authorized Distributor

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