

■ 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

Toppush Type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem height	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKHUAKE010	0.98N	Toppush	300,000cycles	Green	2.5mm	3,000	3,000	1
SKHUALE010	1.57N			Black				
SKHUAME010	2.55N		100,000cycles	Red				

With Ground Terminal Type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem height	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKHUPKE010	0.98N	Toppush	300,000cycles	Green	2.5mm	3,000	3,000	2
SKHUPLE010	1.57N			Black				
SKHUPME010	2.55N		100,000cycles	Red				

Dust-proof Type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem height	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKHUBHE010	1.57N	Toppush	50,000cycles	Brown	3.1mm	3,000	3,000	3

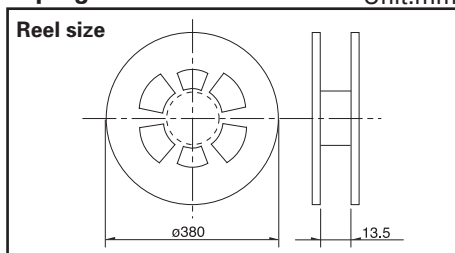
Dust-proof and with Ground Terminal Type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem height	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKHUQHE010	1.57N	Toppush	50,000cycles	Brown	3.1mm	3,000	3,000	4
SKHUQGE010	2.55N			Red				

■ Packing Specifications

Taping

Unit:mm



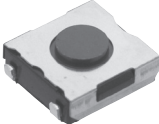
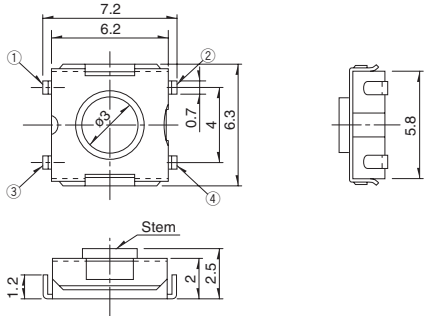
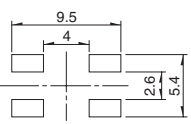
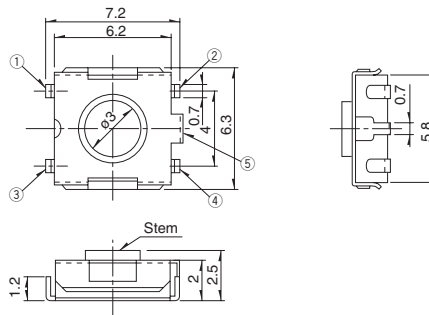
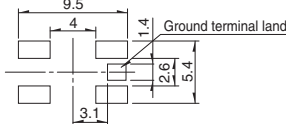
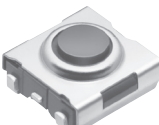
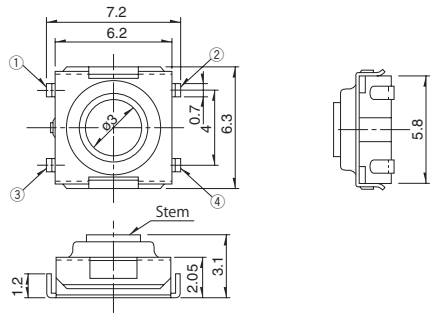
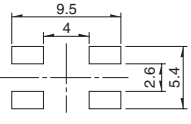
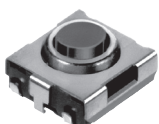
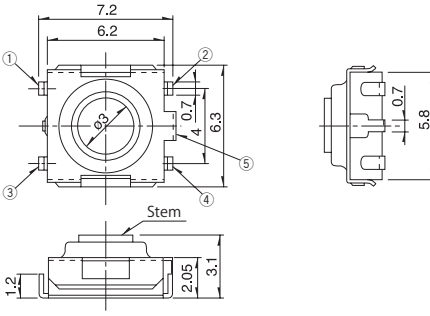
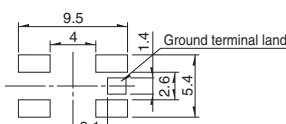
Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan	1 case / export packing		
3,000	30,000	30,000	12	401 × 401 × 214

Note

For reels of 330mm diameter, please inquire.

■ Dimensions

Unit:mm

No.	Photo	Style	PC board land dimensions (Viewed from switch mounting face)
1			
2			
3			
4			

Detector

Push

Slide

Rotary

Encoders

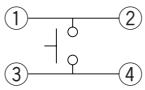
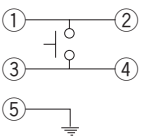
Power

Dual-in-line
Package Type

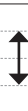
TACT Switch™

Sharp
FeelingSoft
FeelingSnap-in
TypeSurface
Mount TypeRadial
Type

■ Circuit Diagram

Toppush type	With ground terminal type
	

List of Varieties

Type		Sharp Feeling Type										
		Surface Mount										
Series		SKST	SKRA	SKHM	SKHU	SKTD	SKSN	SKSL	SKSC	SKRT	SKRV	SKRH
Photo												
Features		Middle travel		—	—	Low-profile	Mid-mount	Half-mount	Low-profile	—	4-direction switch+push switch	
Water-proof		—	○	—	○	●	—	—	—	—	—	—
Dust-proof		○	○	—	○	●	○	○	○	—	—	—
Operating direction	Toppush	●	●	●	●	—	—	—	—	—	●	●
	Sidepush	—	—	—	—	●	●	●	●	●	—	—
Dimensions (mm)	W	8.5	□ 6.2	6.2	6.2	2.9	6.2	4.5	3.5	4.5	6.45	7.35
	D	8.5		6.5	6.3	3.9	2.55	2.6	3.55		6.4	7.5
	H	3.95	3.4	3.1	2.5	1.55	3.5	2.2	1.25	3.3	4	5
Operation force coverage	~1N										※	
	1N~2N											
	2N~3N											
	3N~4N											
	4N~5N											
Travel (mm)		0.9	※	0.25		0.15	0.2	0.15	0.2		※	
Ground terminal		—	—	●	●	●	●	●	●	●	—	—
Operating temperature range		- 30℃ to + 85℃					- 40℃ to + 90℃		- 30℃ to + 85℃		- 20℃ to + 70℃	- 40℃ to + 85℃
Automotive use		●	○	—	○	—	—	—	—	—	—	—
Life Cycle												
Rating (max.) (Resistive load)		50mA 16V DC	50mA 12V DC									
Rating (min.) (Resistive load)		10 μA 1V DC										
Electrical performance	Insulation resistance	100M Ω min. 100V DC for 1min.										
	Voltage proof	250V AC for 1min.							100V AC for 1min.	250V AC for 1min.	100V 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℃ for 96h		- 30±2℃ for 96h		- 40 ± 2℃ for 96h	
	Dry heat	80±2℃ for 96h					90℃ for 96h		80±2℃ for 96h		90 ± 2℃ for 96h	
	Damp heat	60±2℃ , 90 to 95%RH for 96h										
Page		267	268	269	270	272	275	274	275	276	421	422

W : Width. The most outer dimension excluding terminal portion.
D : Depth. The most outer dimension excluding terminal portion.
H : Height. The minimum dimension if there are variances.

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- TACT Switch™ Cautions 289

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.
- ※ See the relevant pages for respective product descriptions

TACT Switch™ Soldering Conditions

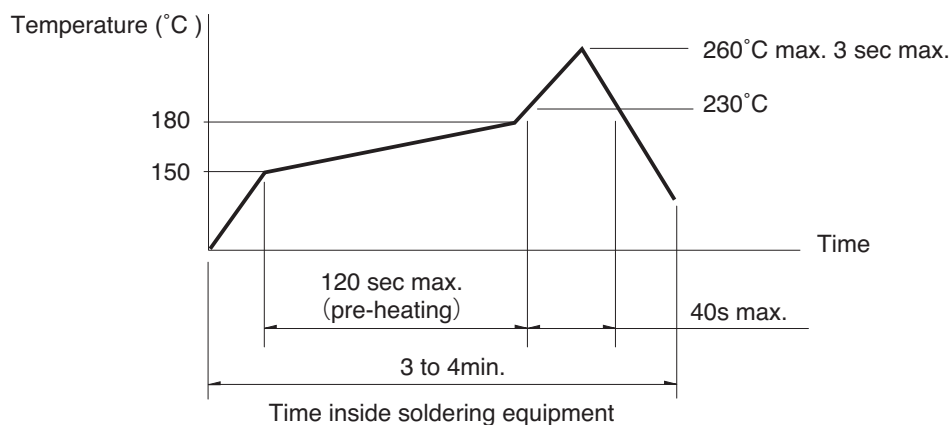
Condition for Reflow

Available for Surface Mount Type.

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

3. Temperature profile

Detector
Push
Slide
Rotary
Encoders
Power
Dual-in-line
Package Type



Notes

1. The above temperature shall be measured of the top of switch. 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

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
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、SKPD Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
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.

SKQJ、SKQK、SKEG Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
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. 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.)

Manual Soldering (Except SKRT Series)

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

SKHH、SKHW、SKRG、SKPD Series

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

SKQJ、SKQK、SKEG Series

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

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