

A wide variety of products including dust-proof type



TACT Switch™

Sharp Feeling

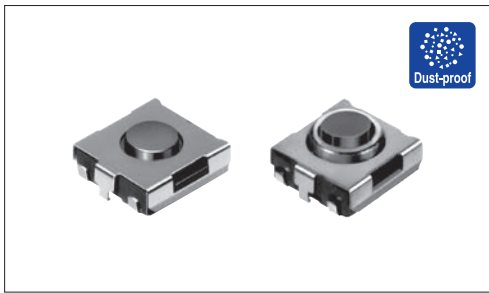
Soft Feeling

Snap-In Type

Surface Mount Type

Radial Type

■ Typical Specifications



Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10 μ A 1V DC
Initial contact resistance	100m Ω max.
Travel (mm)	0.25

■ Product Line

Top push 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	Top push	300,000 cycles	Green	2.5mm	3,000	3,000	1
SKHUALE010	1.57N			Black				
SKHUAME010	2.55N		100,000 cycles	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	Top push	300,000 cycles	Green	2.5mm	3,000	3,000	2
SKHUPLE010	1.57N			Black				
SKHUPME010	2.55N		100,000 cycles	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	Top push	50,000 cycles	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	Top push	50,000 cycles	Brown	3.1mm	3,000	3,000	4
SKHUQGE010	2.55N			Red				

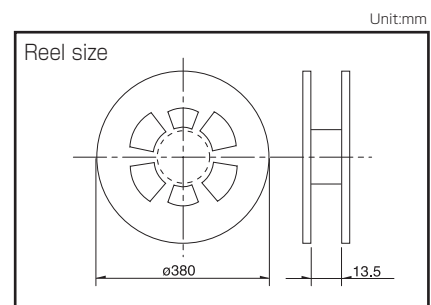
■ Packing Specifications

Taping

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	395×395×205

Note

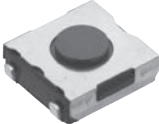
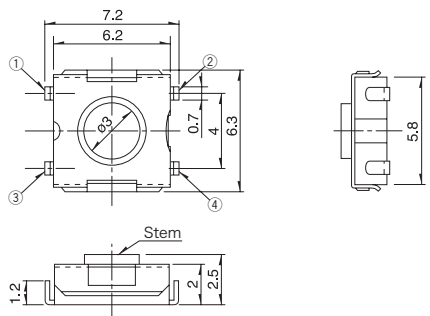
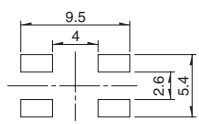

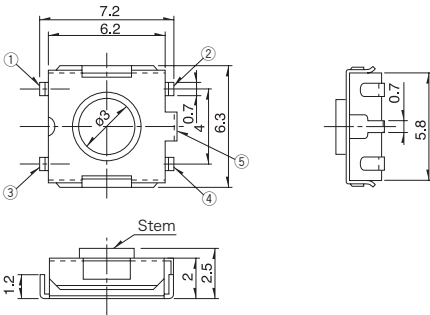
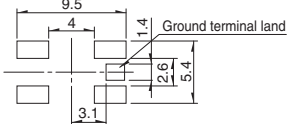
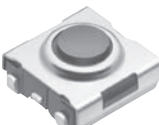
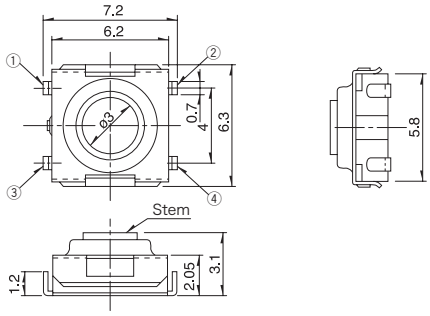
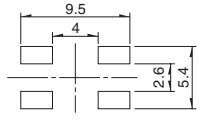

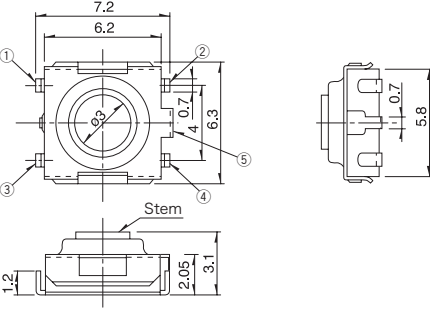
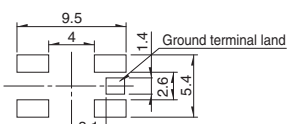
For reels of 330mm diameter, please inquire.



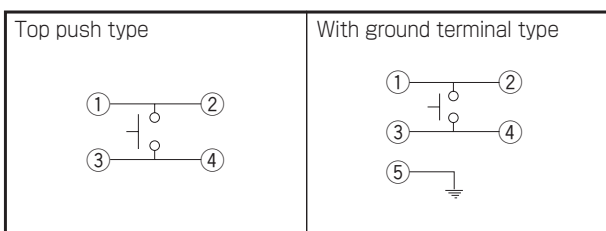
Refer to P.265 for soldering conditions.









■ Dimensions

Unit:mm

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

■ Circuit Diagram



Type		Sharp Feeling Type							
		Surface Mount							
Series		SKHU	SKTD	SKSN	SKTG	SKSL	SKSC	SKRT	SKRH
Photo									
Features		—	Low-profile	Mid-mount	Half-mount		Low-profile	—	4-direction switch + push switch
Water-proof		○	●	—	●	—	—	—	—
Dust-proof		○	●	—	●	—	—	—	—
IP standard		—	67 equivalency	—	67 equivalency	—	—	—	—
Operating direction	Top push	●	—	—	—	—	—	—	●
	Side push	—	●	●	●	●	●	●	●
Dimensions (mm)	W	6.2	3.9	6.2	5.2	4.5	3.5	4.5	7.35
	D	6.3	2.9	3	3.5	2.6	3.55	3.4	7.5
	H	2.5/3.1	1.55	3.5	1.55	2.2	1.25	3.3	5
Operation force coverage	1N max.	↕	↕	↕	↕	↕	↕	↕	See the relevant pages for respective product description
	1N to 2N								
	2N to 3N								
	3N to 4N								
4N to 5N									
Travel (mm)		0.25	0.15	0.2	0.15		0.2		See the relevant pages for respective product description
Ground terminal		●	●	●	●	●	○	●	●
Operating temperature range		-40°C to +85°C	-30°C to +85°C	-40°C to +85°C	-30°C to +85°C			-40°C to +90°C	-40°C to +85°C
Automotive use		○	—	—	—	—	—	—	—
Life Cycle		★ ₃	★ ₂	★ ₂	★ ₂	★ ₂	★ ₂	★ ₂	★ ₂
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.	100V AC 1min.	250V AC 1min.	100V AC 1min.	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°C 96h							
	Dry heat	90°C 96h	85°C 96h	90°C 96h	85°C 96h	90°C 96h			
	Damp heat	60°C, 90 to 95%RH 96h							
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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 266

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.

1. Temperature measurement: Thermocouple ϕ 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.
2. Temperature profile



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 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, SKPD 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.

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. 100°C max.
Preheating time	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering

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.

SKTD, SKTG, SKQJ, SKQK, SKEG Series

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