

A low-profile 0.6mm thick model with long-life of 5 million cycles widely applicable to portable information devices



■ Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	500mΩ max.
Travel (mm)	0.25

■ Product Line

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Minimum order unit (pcs.)	
				Japan	Export
SKRRAAE010	1N	Top push	5,000,000 cycles	7,000	7,000
SKRRABE010	1.6N				
SKRRACE010	2N				

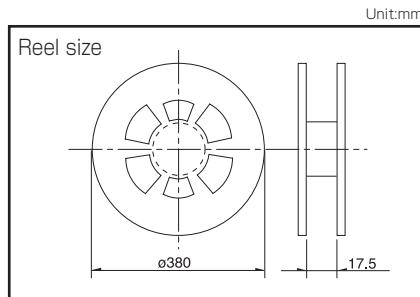
■ Packing Specifications

Taping

Number of packages (pcs.)		Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan		
7,000	56,000	56.000	16 401×401×214

Note

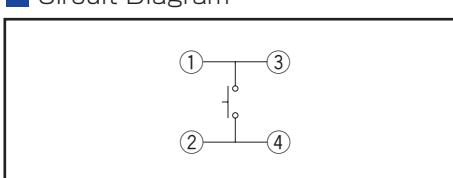
For reels of 330mm diameter, please inquire.



■ Dimensions

Style	PC board land dimensions (Viewed from switch mounting face)

■ Circuit Diagram



Refer to P.259 for soldering conditions.

Type		Sharp Feeling Type										
		Surface Mount										
Series		SKSH	SKRW	SKRM	SKRB	SKRR	SKQG	SKTC	SKSK			
Photo												
Features		Low-profile				Low-profile and long life	Low-profile	Double action				
Water-proof		—	—	—	—	—	—	●	—			
Dust-proof		—	—	—	—	—	—	●	—			
IP standard		—	—	—	—	—	—	67 equivalency	—			
Operating direction	Top push	●	●	●	●	●	●	●	●			
	Side push	—	—	—	—	—	—	—	—			
Dimensions (mm)	W	3.3	□3.7	□4.5	□4.8	7.5	□5.2	3.4	3.5			
	D	2.9				7		2.2	3.2			
	H	0.35		0.4	0.55	0.6	0.8/1.5	0.62	0.6			
Operation force coverage	to 1N							See the relevant pages for respective product descriptions				
	1N to 2N											
	2N to 3N											
	3N to 4N											
	4N to 5N											
Travel (mm)		0.15		0.15/0.2		0.25		See the relevant pages for respective product descriptions				
Ground terminal		—	—	—	—	—	—	●				
Operating temperature range		-30°C to +85°C		-40°C to +85°C		-40°C to 90°C		-30°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.										
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°C 96h										
	Dry heat	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.

TACT Switch™ Soldering Conditions	259
TACT Switch™ Cautions	260

Notes

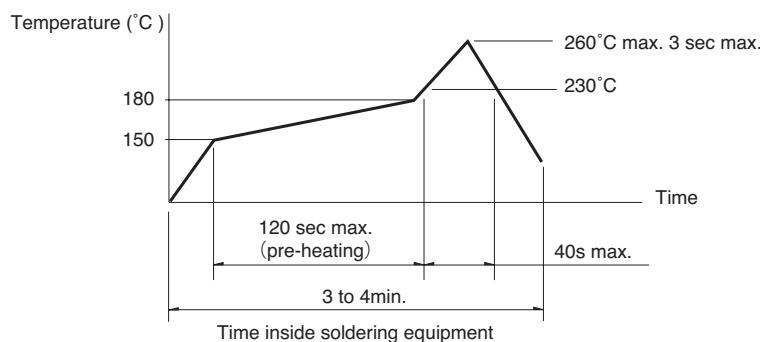
1. The automotive operating temperature range to be individually discussed upon request.

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.

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.

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, 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.