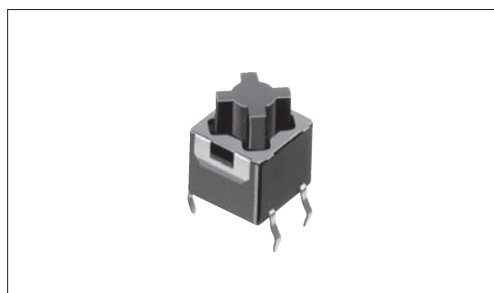


8×9mm size. Combination of long travel 1.75mm and high operation force prevents malfunction



Typical Specifications



Items	Specifications
Rating (max.)	5mA 12V DC
Rating (min.)	10 μ A 1V DC
Initial contact resistance	1k Ω max.
Travel (mm)	1.75

Product Line

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Minimum order unit (pcs.)	
				Japan	Export
SKPFACA010	1.96N	Top push	100,000 cycles	1,000	1,000
SKPFAAA010	3.92N				

Packing Specifications

Bulk

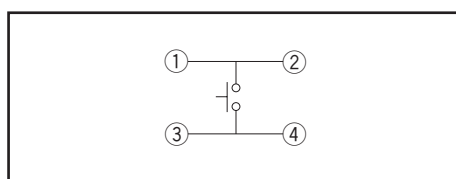
Number of packages (pcs.)		Export package measurements (mm)
1 case / Japan	1 case / export packing	
4,000	12,000	309×476×347

Dimensions

Unit:mm

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

Circuit Diagram



Note

Please Using a 1.6mm thick PC board is recommended.

Refer to P.265 for soldering conditions.

TACT Switch™

List of Varieties

TACT Switch™

Sharp
Feeling

Soft
Feeling

Snap-In
Type

Surface
Mount Type

Radial
Type

Type		Soft Feeling Type													
		Snap-in			Surface Mount				Radial						
Series		SKEG	SKEG	SKPF	SKPS	SKPM	SKPG	SKPR	SKPL	SKPD					
Photo															
Features		—	—	High operation force Long travel	Low contact resistance	Low contact resistance	—	High operation force Low contact resistance	Round terminal Low contact resistance	—					
Water-proof		—	—	—	—	—	—	—	—	—					
Dust-proof		—	—	—	—	—	—	—	—	—					
IP standard		—	—	—	—	—	—	—	—	—					
Operating direction	Top push	●	—	●	●	●	●	●	●	●					
	Side push	—	●	—	—	—	—	—	—	—					
Dimensions (mm)	W	□6	7.5	8	5.9		6.6	7.5	φ6.45	□7.8					
	D		9.9	9	6		6.3	7.8							
	H	See the relevant pages for respective product descriptions	7.3	10	5			6.5	5	See the relevant pages for respective product descriptions					
Contact		Carbon			Silver		Carbon	Silver		Carbon					
Operation force coverage	1N max.	↕	↕	↕	↕	↕	↕	↕	↕	↕					
	1N to 2N														
	2N to 3N														
	3N to 4N														
4N to 5N															
Travel (mm)		1		See the relevant pages for respective product descriptions	1.05	1.3		1	1.3	See the relevant pages for respective product descriptions					
Ground terminal		—	—	—	—	—	—	—	—	—					
Operating temperature range		-20℃ to +70℃			-40℃ to +90℃										
Automotive use		●	●	●	●	●	●	●	●	●					
Life Cycle															
Electrical performance	Rating (max.) (Resistive load)	5mA 12V DC			50mA 16V DC		5mA 12V DC	50mA 16V DC		5mA 12V DC					
	Rating (min.) (Resistive load)	10μA 1V DC													
	Insulation resistance	100MΩ min. 100V DC 1min.									50MΩ min. 100V DC 1min. SKPD4F: 100MΩ min. 100V DC 1min.				
	Voltage proof	250V AC 1min.									100V AC 1min. SKPD4F: 250V DC 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	-30℃ 96h		-40℃ 96h	-40℃ 1,000h		-40℃ 96h	-40℃ 1,000h		-40℃ 96h					
	Dry heat	80℃ 96h		90℃ 96h	90℃ 1,000h		90℃ 96h	90℃ 1,000h		90℃ 96h					
	Damp heat	60℃, 90 to 95%RH 96h			60℃, 90 to 95%RH 1,000h		60℃, 90 to 95%RH 96h	60℃, 90 to 95%RH 1,000h		60℃, 90 to 95%RH 96h					
Page		256		258	259	260	261	262	263	264					

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 265
TACT Switch™ Cautions 266

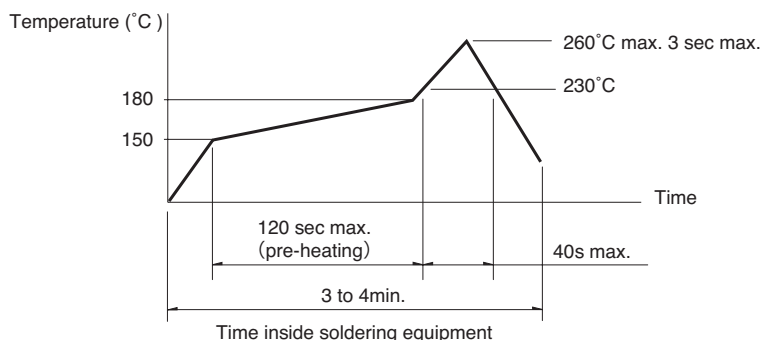
Notes

- The automotive operating temperature range to be individually discussed upon request.
- Indicates applicability to all 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.)

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