Suitable for various electronic devices with unique dust-proof structure and sharp operation feeling



	Dust-proc

Typical Specifications			
Items	Specifications		
Rating (max.)	50mA 12V DC		
Rating (min.)	10µA 1V DC		
Initial contact resistance	100mΩ max.		
Travel (mm)	0.3		

Product Line

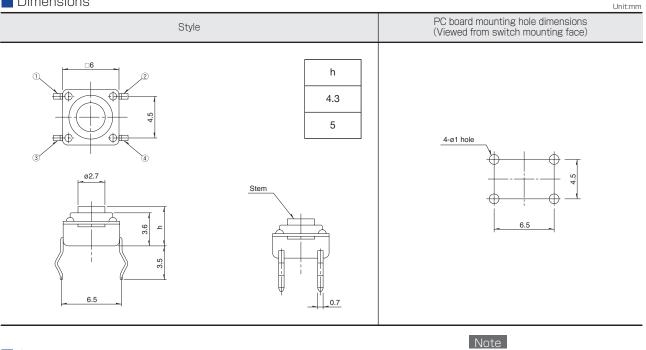
Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem height	Minimum order unit (pcs.)	
TTOUUGETNO.						Japan	Export
SKHWALA010	1.57N		1,000,000 cycles	Dark gray	h=4.3mm h=5mm	- 1,000	1,000
SKHWARA010	2.55N	Top push	500,000 cycles	Red			
SKHWAPA010	1.57N	TOP pusit	1,000,000 cycles	Dark gray			
SKHWAQA010	2.55N]	500,000 cycles	Red			

Packing Specifications

Bulk

Number of pa	Export package		
1 case / Japan	1 case / export packing	measurements (mm)	
10,000	30,000	309×476×347	

Dimensions



Circuit Diagram

(1)	-(2)
	0
<u>3</u> — <u>'</u>	-(4)

Please use 1.6mm thick PC boards.



TACT Switch[™] List of Varieties

	Type	Sharp Feeling Type						
Type		Snap-in						
		SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC
	Photo							Q ,
	Features	_	_	_	_	_	Long-life	_
	Water-proof	_	_	0	_	•	_	_
	Dust-proof	_	_	٠	•	•	•	_
	IP standard	_	_	_	_	_	_	_
Operatii	Top push	•	•	٠	•	•	•	•
directio		—	_	—	_	_	—	_
	W	6				□10		12
Dimensio (mm)		3.5	6		□6.6		□12	
	Н	4.3/5	See the relevant pages for respective product descriptions	4.3/5	5	5/13/23.2	See the relev respective prod	vant pages for luct descriptions
Operation force coverage	2N to 3N	Ţ		1	Ţ	Ţ	1	Ţ
Travel (mm)		0.25 0.3		0.25	0.3		1	
Ground terminal		_	•	_				_
Operatir	ig temperature range	-40°C to +90°C			-20°C to 70°C	-40°C to) +90℃	-40℃ to +85
A	utomotive use	٠	•	_	_	•	_	_
	Life Cycle		*3	*3				
	Rating (max.) (Resistive load)	50mA 12V DC						
Electrical	Rating (min.) (Resistive load)	10µA 1V DC						
performance	Insulation resistance	100MΩ min. 100V DC 1min.						
	Voltage proof	250V 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						
Durability	Lifetime	Shall be in accordance with individual specifications.						
	Cold	-40°C 96h -30°C 96h			-30°C 96h		-40℃ 96h	
Environmental performance	Dry heat	90°C 96h 80°C 9			80°C 96h		90°C 96h	
	Damp heat	60°C, 90 to 95%RH 96h				60°C, 90 to 95%RH 1,000h	60°C, 90 to	95%RH 96h
Page		193	195	199	200	202	204	206

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.

Notes

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

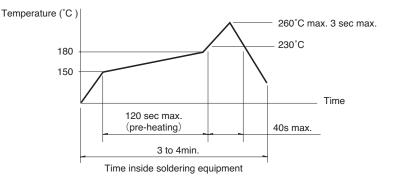
2. Indicates applicability to all products in the series, while \bigcirc indicates applicability to some products in the series.



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 $\ensuremath{\mathbb{C}}$ 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

	<u> </u>
Items	Condition
Soldering temperature	350°C max.
Duration of soldering	Зs max.
Capacity of soldering iron	60W max.

SKHH, SKHW, SKRG, SKPD Series

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

SKTD, SKTG, SKQJ, SKQK, SKEG Series

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

