Switch contributing to high-density mounting, available with top or side push operation

6×3.5mm Compact (Snap-in Type)



Typical Specifications

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

■ Product Line

Top push type

Product No.	Operating	Operating Operating life				Minimum ord	er unit (pcs.)	Drawing			
T TOUGET NO.	force	direction	(5mA 5V DC)	Otern color	Otom noight	Japan	Export	No.			
SKHLAAA010	0.98N		50,000 cycles	Black							
SKHLACA010	1.57N		30,000 Cycles	Dark gray	h=4.3mm						
SKHLAJA010	2.55N	Top push	30,000 cycles	Red		1.000	1.000				
SKHLABA010	0.98N		Top pasir	TOP PUSIT	100 00011		50.000 cycles	Black		1,000	1,000
SKHLADA010	1.57N		30,000 cycles -	Dark gray	h=5mm						
SKHLAKA010	2.55N		30,000 cycles	Red							

Side push type

Product No.	Operating	Operating	Operating life Stem color To		Terminal length	Minimum order unit (pcs.)		Drawing
Floudet No.	force	direction	(5mA 5V DC)	Sterri Color	reminariengur	Japan	Export	No.
SKHLLAA010	0.98N	Side push	50,000 cycles	Black	ℓ=3.5mm (PC board t : 1.6)			
SKHLLBA010	1.57N			Dark gray				
SKHLLFA010	2.55N		30,000 cycles	Red		1,000	1,000	2
SKHLLCA010	0.98N		50,000 cycles	Black	ℓ=2.5mm			
SKHLLDA010	1.57N		50,000	50,000 cycles	Dark gray	(PC board t : 1.0)		

Packing Specifications

Bulk

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

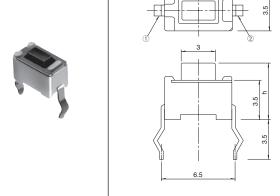
No. Photo Style PC board mounting hole dimensions (Viewed from switch mounting face)

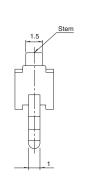
Top push

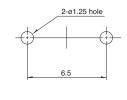
h

4.3

5



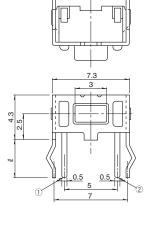




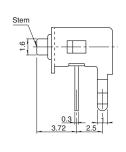
Side push

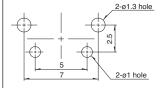
2



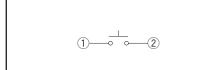


l	PC board
2.5	t 1.0
3.5	t 1.6





Circuit Diagram



	Type				Sharp Feeling Type	5		
9		Snap-in						
	Series	SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC
F	Photo							
Fe	eatures	_	_	_	_	_	Long-life	_
Wa	ater-proof	_	_	_	_	•	_	_
Du	ust-proof	_	_	•	•	•	•	_
IP s	standard	_	_	_	_	_	_	_
Operating	Top push	•	•	•	•	•	•	•
direction	Side push	_	_	_	_	_	_	_
	W	6						
Dimensions (mm)	D	3.5		6	□6.6	□10]12
(111111)	Н	4.3/5	See the relevant pages for respective product descriptions	4.3/5	5	5/13/23.2	See the rele	vant pages for duct descriptions
	1N max.	1	1		1		,	1
Operation	1N to 2N			<u>_</u>	<u> </u>	<u>_</u>		
force	2N to 3N					→	+	+
coverage	3N to 4N							
	4N to 5N		 					
Trav	ivel (mm)	().25	0.3	0.25	0.3		
Grour	nd terminal	_	•	_	_	_	_	_
Operating te	emperature range		-40℃ to +90℃		-20℃ to +70℃	-40℃ to +90℃ -40℃ to		-40℃ to +85℃
Autor	motive use	•	•	_	_	•	_	_
Lif	fe Cycle	* 2	*3	*3	* 2	* 2	*2	*2
	Rating (max.) (Resistive load)				50mA 12V DC	l		
Electrical	Rating (min.) (Resistive load)				10μΑ 1V DC			
performance	sulation resistance			1001	MΩ 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 96h	90°C 96h		
	Damp heat		60°C, 90 to 9	95%RH 96h		60°C, 90 to 95%RH 1,000h	60°C, 90 to	95%RH 96h
	Page	195	197	201	202	204	206	208

 $[\]ensuremath{\mathsf{W}}$: Width. The most outer dimension excluding terminal portion.

Notes

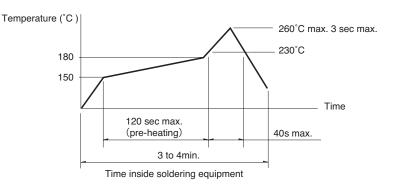
- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Indicates applicability to all products in the series.

 $[\]mathsf{D}:\mathsf{Depth}.$ The most outer dimension excluding terminal portion. H: Height. The minimum dimension if there are variances.

■ 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



TACT Switch™ Soldering Conditions

Notes

- 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.
- 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℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

■ Manual Soldering

Items	Condition
Soldering temperature	350℃ 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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ALPS:

SKHLLDA010 SKHLLAA010 SKHLLCA010 SKHLADA010 SKHLLBA010 SKHLLFA010 SKHLAAA010 SKHLAAA010