6.1×3.7 mm (Surface Mount Type)

Compact switch with contact sealing structure, also available with ground terminal







■ 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

Top push type

Product No.	Operating force	Operating direction	Operating life	Minimum order unit (pcs.)		
T TOUGET NO.	Operating force	Operating direction	(5mA 5V DC)	Japan	Export	
SKQYACE010	0.98N					
SKQYAAE010	1.57N	Top push	50,000 cycles	3,000	3,000	
SKQYABE010	2.55N	τορ ρασιτ	JO,000 Cycles			
SKQYAFE010	3.14N					

With ground terminal type

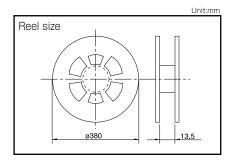
Product No.	Operating force	Operating direction	Operating life	Minimum order unit (pcs.)		
T TOUGET NO.	Operating force	Operating direction	(5mA 5V DC)	Japan	Export	
SKQYPCE010	0.98N		50,000 cycles	3,000	3,000	
SKQYPAE010	1.57N	Top push				
SKQYPBE010	2.55N	τορ ραστι	50,000 Cycles			
SKQYPDE010	3.14N					

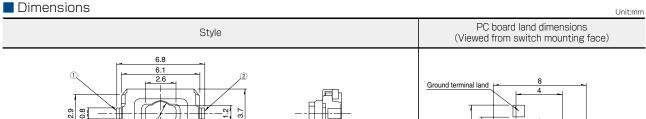
■ Packing Specifications

Taping

Number of packages (pcs.)			Tape width	Export package	
1 reel	1 case / Japan	1 case / export packing	(mm)	measurements (mm)	
3,000	30,000	30,000	12	395×395×205	

For reels of 330mm diameter, please inquire.





Parts indicated by ** apply only to products with a ground terminal.

Ground terminal land

8
4
4
Ground terminal land

2.7
4.7

Circuit Diagram



Parts indicated by $\ensuremath{\mathfrak{J}}$ apply only to products with a ground terminal.

	Type				Sharp Fee	eling Type			
	туре			1	Surface	e Mount		1	
	Series	SKRK	SKTH	SKRP	SKQM	SKQY	SKTQ	SKTR	SKSU
	Photo		S. Sanda			4	NEW	NEW	
	Features	Compact size Low-profile	Compact size	High operation force Compact size	Compa	act size		Middle travel	
	Water-proof	_	_	_	_	_	_	_	•
	Dust-proof	_	•	_	_	_	_	_	•
	IP standard	_	_	_	_	_	_	_	67 equivalent
Operatir		•	•	•	•	•	•	•	•
directio	n Side push	_	_	_	_	_	_	_	_
	W	3.9	3.5	4.2	6	6.1	5.3	- □6.1	5.3
Dimensio (mm)	ons D	2.9	3.	.2	3.5	3.7	5.4	0.1	5.4
	Н	1.5/2	1.8/2.5	2.5	4.3/5	2.5	4.25	4.1	3.85/4.34
Operation force coverage	2N to 3N	Ţ					1	4	•
	Travel (mm)	0.13	0.12	0.2	0.3	25	0.71	0.72	0.7/0.9
G	round terminal	_	_	_	_	0	_	_	_
Operatin	g temperature range	-40℃ to +85℃	-40℃ to +85℃ -40℃ to +90℃						
А	utomotive use	_	•	•	•	•	•	•	•
	Life Cycle	* 2	* 2	*3	* 2	* 2	*3	*3	*3
	Rating (max.) (Resistive load)	50mA 12V DC	50mA 12V DC 25mA 16V DC 50mA 16V DC 50mA 12V DC 50mA 16V DC				С		
Electrical	Rating (min.) (Resistive load)		10μA 1V DC						
performance	Insulation resistance		$100 M\Omega$ min. $100 V$ DC 1 min.						
	Voltage proof	250V AC 1min.	100V AC 1min.			250V A	.C 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							
2 a. dollity	Lifetime		Shall be in accordance with individual specifications.						
	Cold	-40°C 96h		-40℃ 1,000h	-40℃ 96h		−40°C 1,000h		1
Environmental performance	Dry heat	90℃ 96h		90°C 1,000h	90°C	90°C 96h		90℃ 1,000h	
	Damp heat	60°C, 90 to 95%RH 96h			1,000h				
	Page	218	220	222	224	225	227	228	229

W : Width. The most outer dimension excluding terminal portion. D : Depth. The most outer dimension excluding terminal portion.

Notes

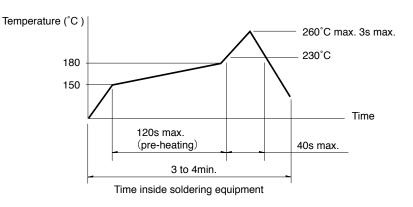
H : Height. The minimum dimension if there are variances.

 $[\]hbox{1. The automotive operating temperature range to be individually discussed upon request.}\\$

^{2.} Indicates applicability to all products in the series, while O indicates applicability to some products in the series.

■ Condition for Reflow Available for Surface Mount Type.

Temperature profile



TACT Switch™ / Soldering Conditions

Notes

- 1. Please confirm the specifications of our product for the detailed condition.
- 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℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

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

SKHL Top Push Type, SKQJ 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 Series

Items	Condition
Soldering temperature	360°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKTD, SKTG, SKQJ 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 TM .
- 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.)

