4.2×3.2 mm Compact High Operating Force (Surface Mount Type)

High operation force satisfies the needs in automotive applications. Wide stem & good mountability







■ Typical Specifications

Items	Specifications
Rating (max.)	50mA 16V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	500mΩ max.
Travel (mm)	0.2

■ Product Line Standard type

Product No.	Operating force	Operating direction	Operating life	Stem color	Minimum order unit (pcs.)	
T TOUGET NO.	Operating force	Operating direction	(5mA 5V DC)	Otom color	Japan	Japan
SKRPABE010	1.57N		100,000cycles	Natural	4,000	4,000
SKRPACE010	2.55N	Top push	50,000cycles			
SKRPADE010	4N	τορ ρασιτ	100,000cycles	Black		
SKRPARE010	5N		300,000cycles	DIACK		

Long-life type

Product No.	Operating force	Operating direction	Operating life	Stem color	Minimum order unit (pcs.)	
T TOUGET NO.	Operating force	Operating direction	(5mA 5V DC)	Sterii coloi	Japan	Japan
SKRPANE010	1.57N	Top push	1,000,000cycles	Natural	4.000	4.000
SKRPASE010	2.55N	τορ ράδιτ	500,000cycles	Black	4,000	4,000

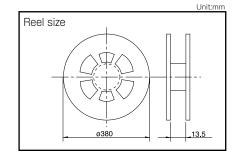
Packing Specifications

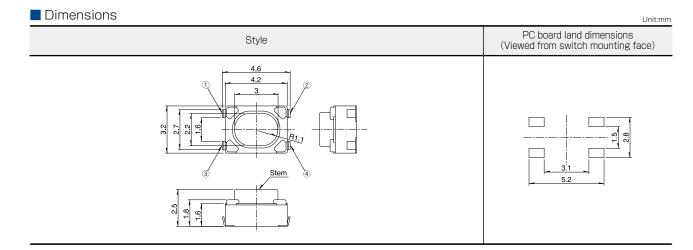
Taping

Number of packages (pcs.)			Tape width	Export package
1 reel	1 case / Japan	1 case / export packing	(mm)	measurements (mm)
4,000	40,000	40,000	12	395×395×205

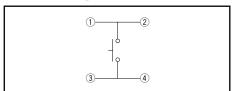
Note

For reels of 330mm diameter, please inquire.





■ Circuit Diagram



	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℃						
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		100MΩ min. 100V DC 1min.						
	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°C 1,000h -40°C 96h -40°C 1,000			-40°C 1,000h	1			
Environmental performance	Dry heat	90°C 96h 90°C 1,000h 90°C 96h 90°C 1,000h			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

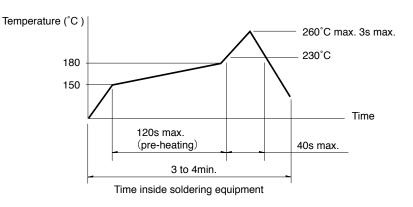
H : Height. The minimum dimension if there are variances.

 $[\]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.)

