High operation force satisfies the needs in automotive



applications. Wide stem & good mountability



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

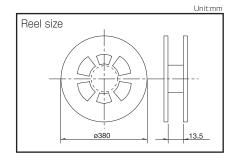
Product Line

Product No.	Operating force	Operating direction	Operating life	Stem color	Minimum order unit (pcs.)		
T TOUGGE TWO.	Product No. Operating force Opera		(5mA 5V DC)		Japan	Export	
SKRPABE010	1.57N		100,000 cycles	Natural	4,000	4,000	
SKRPACE010	2.55N	Top push	50,000 cycles				
SKRPADE010	4N		100,000 cycles	Black			

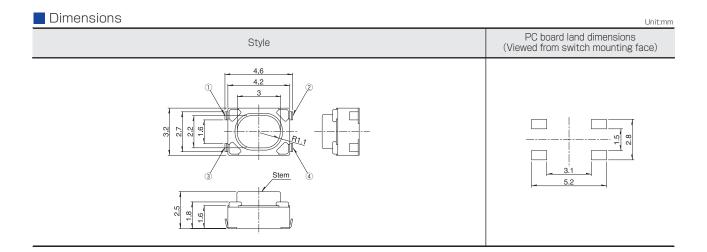
Packing Specifications

Taping

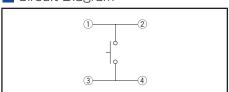
Number of packages (pcs.)			Tape width	Export package
1 reel	1 case / Japan	1 case / export packing	(mm)	measurements (mm)
4,000	40,000	40,000	12	401×401×214



For reels of 330mm diameter, please inquire.



Circuit Diagram



Refer to P.259 for soldering conditions.

					Sharp Fe	eling Type			
	Type				Surfac	e Mount			
	Series	SKTH	SKRP	SKQM	SKQY	SKSU	SKST	SKRA	SKHM
	Photo	NEW						9	P
	Features	Compact size	High operation force Compact size	Comp	act size		Middle travel		_
	Water-proof	_	_	_	_	•	_	0	_
	Dust-proof	•	_	_	_	•	_	0	_
	IP standard	_	_	_	_	67 equivalency	_	67 equivalency	_
Operatir	Top push	•	•	•	•	•	•	•	•
directio		_	_	_	_	_	_	_	_
	W	3.5	4.2	6	6.1	5.3	8.5		6.2
Dimensio (mm)		3.2	3.2	3.5	3.7	5.4	8.5	- □6.2	6.5
(11111)	Н	1.8/2.5	2.5	4.3/5	2.5	3.85	3.95	3.5/5.2	3.1
Operation force coverage	2N to 3N	Ţ	1	1					1
	Travel (mm)	0.12	0.2	О.	25	0.7	0.9	See the relevant pages for respective product descriptions	0.25
G	round terminal	_	_	_	0	_	_	_	•
Operatir	ng temperature range				-40°C to +90	C			-40℃ to +85℃
А	utomotive use	•	•	•	•	•	•	0	_
	Life Cycle	* 2	*3	* 2	* 2	*3	* 2	*3	*3
	Rating (max.) (Resistive load)	25mA 16V DC	50mA 16V DC	50mA	12V DC	50mA 10	6V DC	50mA 1	2V DC
Electrical	Rating (min.) (Resistive load)	10μΑ 1V DC							
performance	Insulation resistance	100MΩ min. 100V DC 1min.							
	Voltage proof	100V AC 1min. 250V AC 1min.							
0	Vibration	0 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℃ 96h	96h -40°C 1,000h -40°C 96h -40°C 1,00		-40°C 1,000h	٦	-40°C 96h		
Environmental performance	Dry heat	90℃ 96h	90°C 1,000h	90°0	96h		90°C 1,000h 90°C 9		
	Damp heat	60°C, 90 to 95%RH 96h	60°C, 90 to 95%RH 1,000h	60°C, 90 to	95%RH 96h	60°C, 9	60°C, 90 to 95%RH 1,000h		60°C, 90 to 95%RH 96h
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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 · · · · · · · · · · · · · · · · · · ·	9
TACT Switch™ Cautions · · · · · · · · · · · · · · · · · · ·)

Notes

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

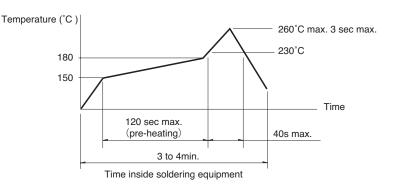
^{2.} lacktriangle Indicates applicability to all products in the series, while \bigcirc indicates applicability to some products in the series.

TACT Switch™ Soldering Conditions

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

- 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.

	3.
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.)

