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

SKRP Series





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

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch¹¹

Custom-**Products**

|--|

Product Line

Product No.	Operating force	Operating direction			Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Minimum order unit (pcs.)	
SKRPABE010	1.57N			50mA 16V DC			100,000cycles		Natural	
SKRPACE010	2.55N	Vertical	0.2		,	50,000cycles	500m max.	Ivaturai	4,000	
SKRPADE010	4N					100,000cycles		Black		

Specification of Embossed Taping Package (Taping Packaging for Auto-insertion) Unit:mm

Plastic Reel		
	9380	

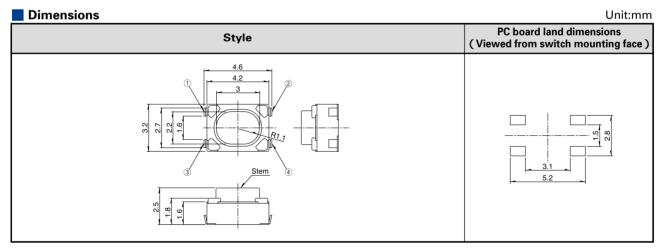
Num	T : 141				
1 reel	1 case /Japan	1 case /export packing	Tape width (mm)		
4,000	40,000	40,000	12		

Snap-in Type Surface

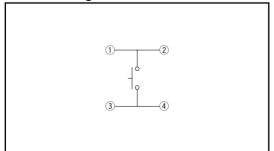
Mount Type Radial

Type

Sharp Feeling Soft Feeling



Circuit Diagram



- 1. Please place purchase orders for taping products per minimum order unit (1 reel or a case).
- 2. For 330mm diameter reel requirements, please contact us.

Refer to P.306 for soldering conditions.

List of Varieties

Sharp Feeling Type

anarp reening Type														
Series		SKSD	SKRN	SKSE	SPEE	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	SKHU		
Photo			\rightarrow	100	-									
	Туре						Su	rface mou	unt					
Features		Double	action		ital type action	Compact size Low-profile	High operation force Compact size	Compa	act size	Middle stroke		Dust-proof type is available		
Ope Ver		tical												
Operating direction	Horiz	ontal												
		w	4.1	6	5.9	4	3.9	4.2	6	6.1	6.2	6.2		
	nsions m)	D	3.9	6	2.87	5	2.9	3.2	3.5	3.7		6	6.5	
		н	0.6	0.9	3	1.22	1.5	2.5	4.3	2.5	3.4	3.1	2.5	
Operation force coverage		See the	e relevant pa product de	ages for res escriptions	pective	‡	1	1	1	1	1	1		
Ground terminal														
Operating temperature range			-30) to +8!	5	-10 to +60			-30) to +8	5	I	I	
Electrical performance	Insulation resistance		100M	min. 10	0V DC	10M min. 100V DC	. 100M min. 100V DC							
Woltage proof				V AC for 1i : 100V AC		100V AC for 1min.	250V AC for Imin.							
Durability	Vibra	ation	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 2hours respectively											
bility	Lifet	time			Sh	all be in a	accordance with individual specifications.							
Envi per	Co	old	-30	±2 for	96h	-40 ± 2 for 96h	−30 ± 2 for 96h							
Environmental performance	Dry	heat	80	±2 for 9	96h	85 ± 2 for 96h			80 ± 2 for 96h					
ental nce	Damp	heat	60 ± 2	, 90 to 95° 96h	%RH for	40 ± 2 , 90 to 95%RH for 96h						h		
	Page		278	279	280	84	281	282	283	284	285	286	287	
								A / ! ! . T !						

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.

Note

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

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Sharp Feeling Soft Feeling Snap-in Type

Surface Mount Type

Radial Type **Detector**

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Products

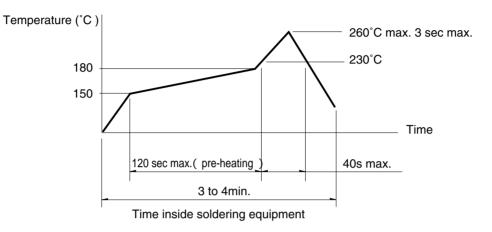
Snap-in Type Surface Mount Type Radial Type

Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 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.
- 3. Temperature profile



Note

- 1. The above temperature shall be measured on the mounting surface of a PC board. 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.

Sharp Feeling Conditions for Auto-dip Available for Snap-in Type and Radial Type (Except SKHJ, SKHL, SKQJ, SKQK, SKEG series)

Items	Condition			
Flux built-up	Mounting surface should not be exposed to fluk			
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100 max.			
Preheating time	60s max.			
Soldering temperature	260 max.			
Duration of immersion	5s max.			
Number of soldering	2times max.			

Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350 max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

Notes

- 1. Consult with us for availability of TACT Switch™ washing.
- 2. Prevent flux penetration from the top side of the TACT \widetilde{Switch}^{TM} .
- 3. Switch terminals and a PC board should not be coated with flux prior to soldering.
- 4. The second soldering should be done after the switch is stable with normal temperature.
- 5. Use the flux with a specific gravity of min 0.81. (EC-19S-8 by TAMURA Corporation, or equivalents.)