



X CLOSE

Detector Switch > SPVE Series > SPVE110200

## Compact One-way Operation Type SPVE Series

| [Dimensions](#) | [Land Dimensions](#) | [Terminal Layout](#) | [Circuit Diagram](#) |  
 | [Packing Specifications](#) | [Soldering Conditions](#) |



Part number [Series Common Info](#)

SPVE110200

NET SHOP

3D CAD

RoHS

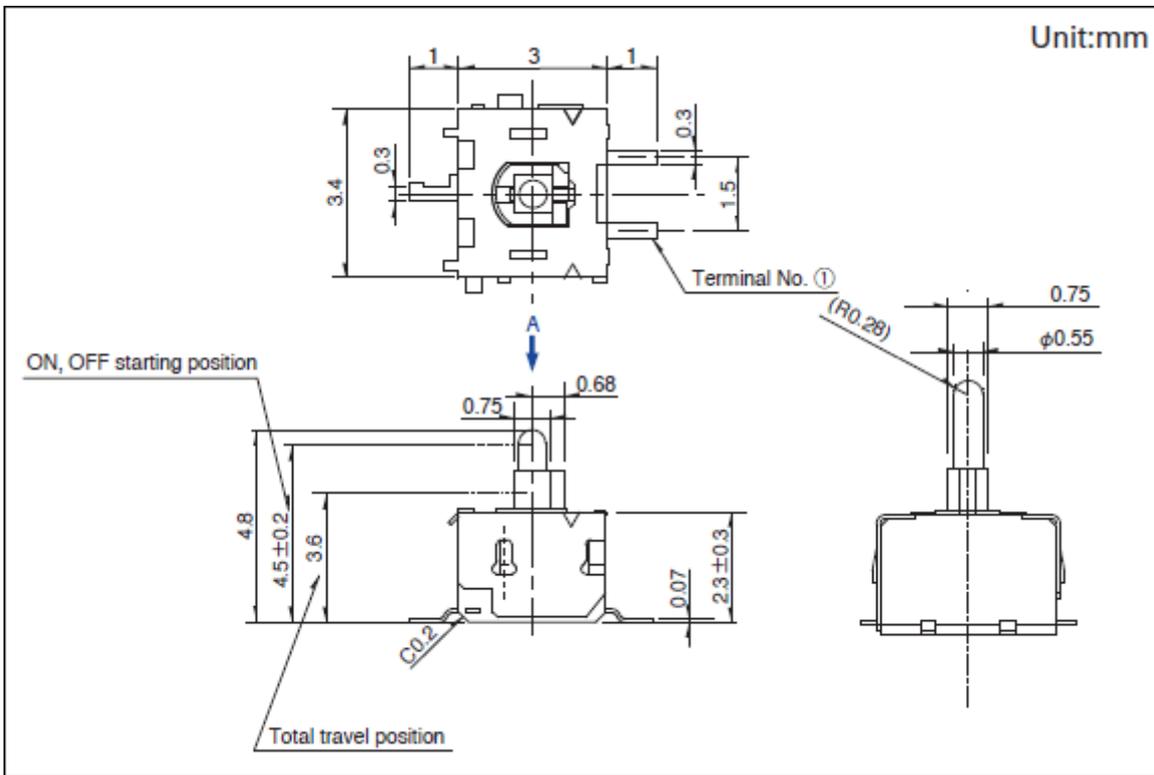
Print

Inquiry

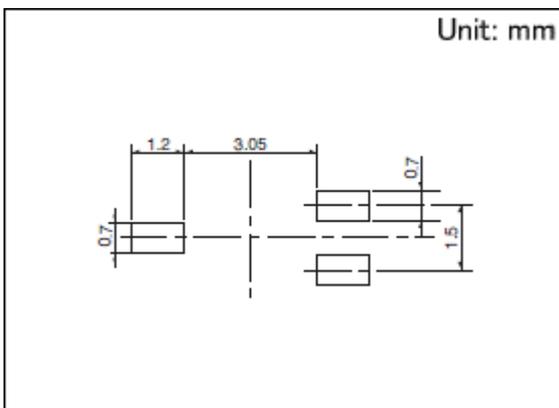
Poles	1	
Positions	1	
Terminal type	For PC board (Reflow)	
Operating force	0.3N max.	
Slider height (mm)	4.8	
ON start position (mm)	4.5	
Total travel position (mm)	3.6	
Style	Standard	
Location lug	Without	
Operating temperature range		-10°C to +60°C

Rating (max.)/(min.) (Resistive load)		0.1A 30V DC/50 $\mu$ A 3V DC
	Contact resistance (Initial/After operating life)	500m $\Omega$ max./1 $\Omega$ max.
Electrical performance	Insulation resistance	100M $\Omega$ min. 100V DC
	Voltage proof	100V AC for 1 minute
Mechanical performance	Terminal strength	0.5N for 1 minute
	Actuator strength	5N
	Operating life without load	50,000 cycles 1 $\Omega$ max.
Durability	Operating life with load Rating (max.) (Resistive load)	50,000 cycles 1 $\Omega$ max.
	Cold	-20°C 96h
Environmental performance	Dry heat	85°C 96h
	Damp heat	40°C, 90 to 95%RH 96h
Minimum order unit (pcs.)	Japan 2,200 Export 17,600	

## Dimensions

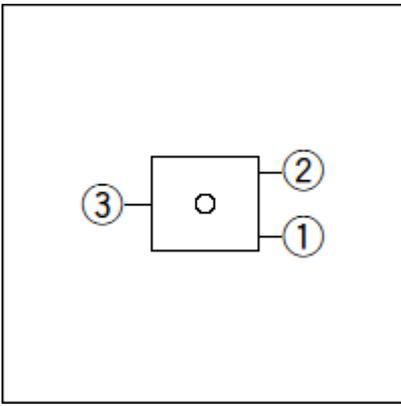


## Land Dimensions

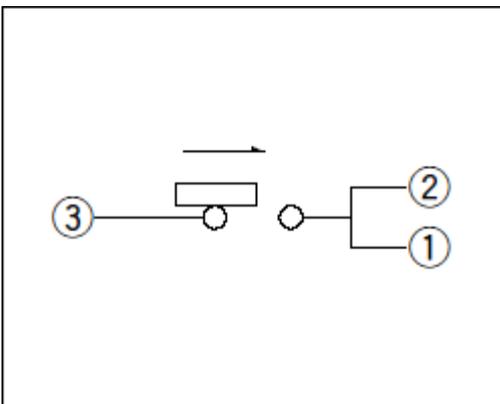


Viewed from direction A in the dimensions.

## Terminal Layout

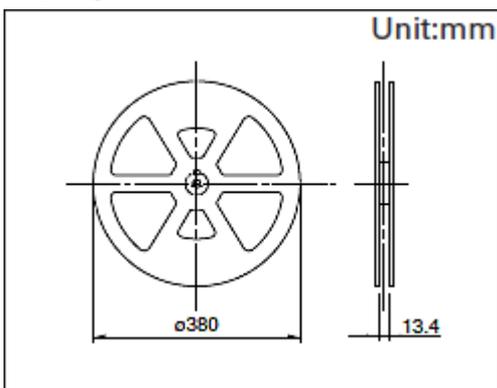


## Circuit Diagram



## Packing Specifications

### Taping



	1 reel	2,200
Number of packages (pcs.)	1 case / Japan	4,400
	1 case / export packing	17,600
Tape width (mm)		12

Export package measurements (mm) 406 × 406 × 190

## Soldering Conditions

### Example of Reflow Soldering Condition

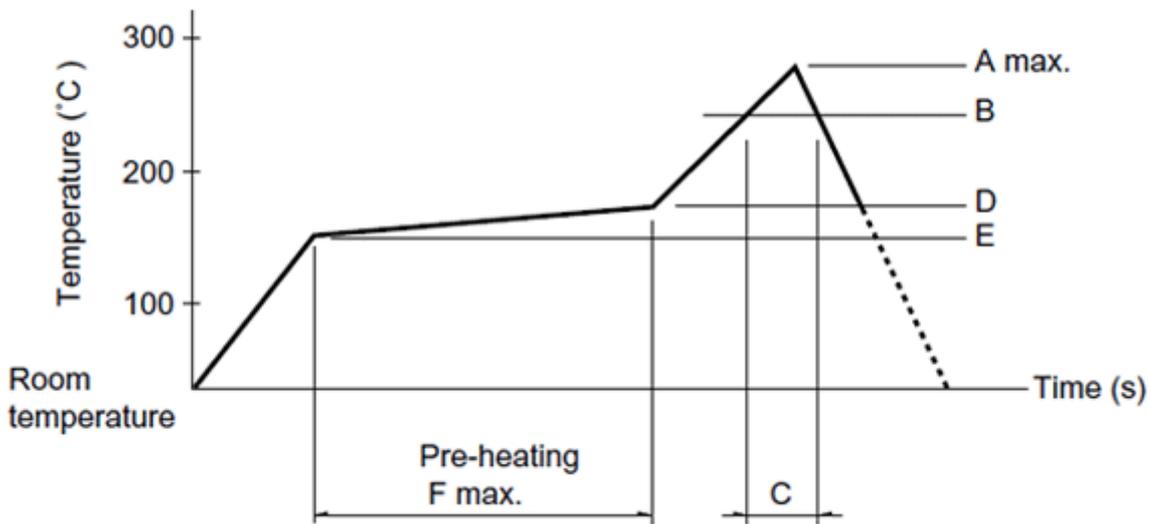
#### 1. Heating method

Double heating method with infrared heater.

#### 2. Temperature measurement

Thermocouple 0.1 to 0.2VCA (K) or CC (T) at soldering portion (copper foil surface) . A heat resisting tape should be used for fixed measurement.

#### 3. Temperature profile



A(°C) 260  
 B(°C) 230  
 C(s) 40  
 D(°C) 180  
 E(°C) 150  
 F(s) 120  
 3s max.

(1) The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, surface depending on the PC board's material, size, thickness, etc. 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.

### Reference for Hand Soldering

Soldering temperature  $350 \pm 5^\circ\text{C}$

Soldering time 3s max.

## Notes are common to this series/models.

1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Standard type dimensions indicate "with location lug." version.
3. Please place purchase orders per minimum order unit (integer).
4. Products other than those listed in the above chart are also available. Please contact us for details.

## Inquiries about Products

[Inquiry.](#)

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