

Low-profile Two-way Operation Type SPVN Series

Series Common Info

? Photo ? Dimensions ? Land Dimensions ? Terminal Layout ? Circuit Diagram ? Packing Specifications ?
 ? Soldering Conditions ?

PRINT

Part number	SPVN320100	
Poles	1	
Positions	1	
Terminal type	For PC board (Reflow)	
Operating force	0.35N max.	
Lever length	Long	
Operating direction	Right	
Location lug	Without	
Operating temperature range	-40? to +85?	
Rating (max.)/(min.) (Resistive load)	1mA 5V DC/50? A 3V DC	
Electrical performance	Contact resistance ?Initial/After operating life?	2? max./5? max.
	Insulation resistance	100M? min. 100V DC
	Voltage proof	100V AC for 1 minute
Mechanical performance	Terminal strength	0.5N for 1 minute
	Actuator strength	5N
Durability	Operating life without load	50,000 cycles 5? max.
	Operating life with load Rating?max.? ?Resistive load?	50,000 cycles 5? max.
Environmental performance	Cold	-40±2? for 96h
	Dry heat	85±2? for 96h
	Damp heat	40±2? , 90 to 95%RH for 96h
Minimum order unit (pcs.)	Japan	5,000
	Export	20,000

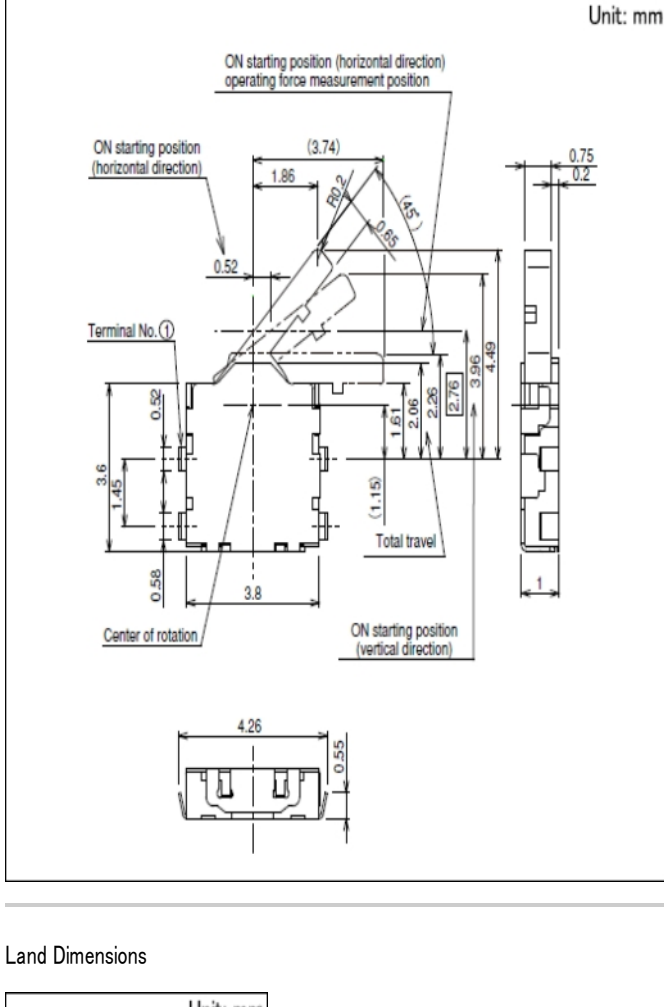
3D CAD (STEP) [↓](#)

Certificate of Compliance to RoHS regulations [↓](#)

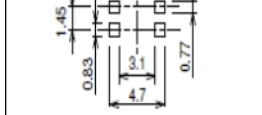
Photo



Dimensions

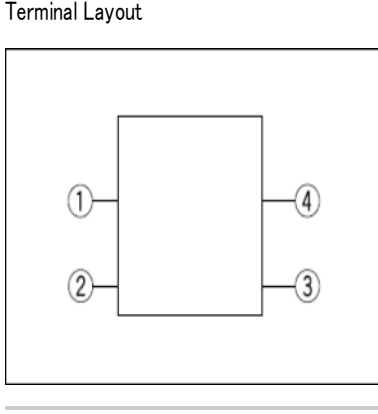


Land Dimensions

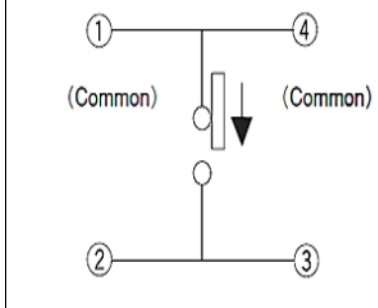


Viewed from direction A in the dimensions.

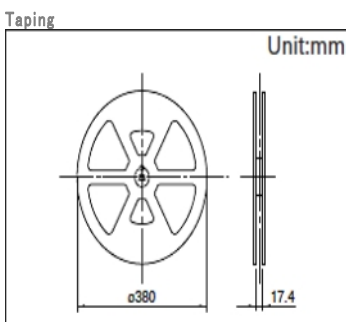
Terminal Layout



Circuit Diagram



Packing Specifications



Number of packages (pcs.)	? reel	5,000
	1 case / Japan	10,000
	1 case / export packing	20,000
Tape width (mm)	16	
Export package measurements (mm)	417 x 409 x 139	

Soldering Conditions

Example of Reflow Soldering Condition

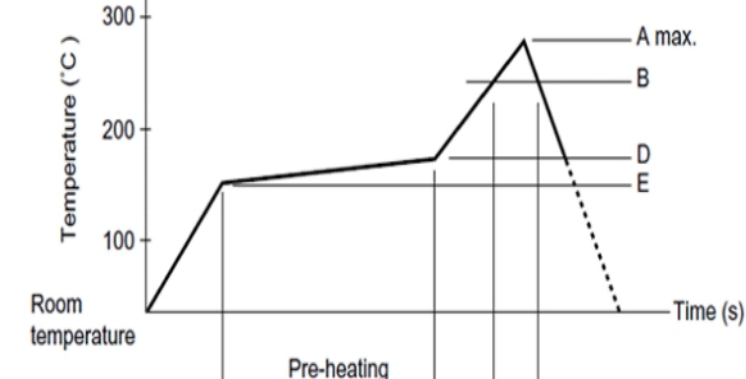
1. Heating method

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

(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±5?
Soldering time	3s max.

Notes are common to this series/models.

- This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- Please place purchase orders per minimum order unit (integer).
- This products can be used in vehicles.
Although these products are designed to perform over a wide operating temperature range, please ensure that you receive and read the formal delivery specifications before use.

Inquiries about Products

[Inquiry](#)

For more information please contact: Sales or Products Information Center.

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