

Compact Two-way Operation Type SPVM Series

Detail

Part number	SPVM110100
Poles	1
Positions	1
Terminal type	For PC board (Reflow)
Operating force	0.4N max.
Frame	Without terminal
Location lug	With
Minimum order unit (pcs.)	12,000

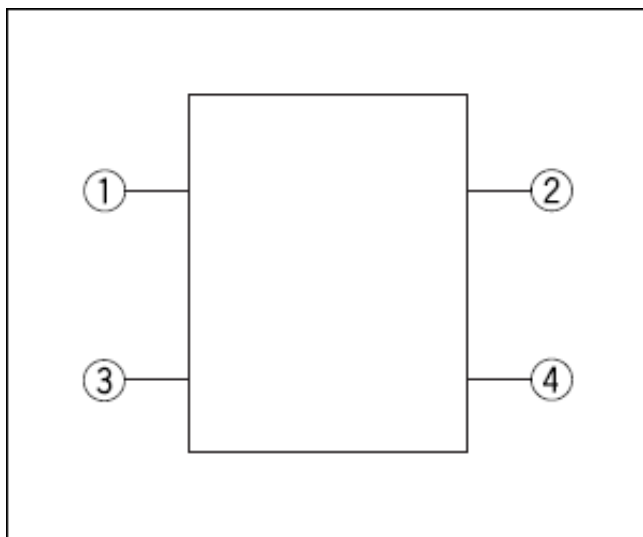
Operating temperature range		-40°C to +85°C
Rating (max.)/(min.) (Resistive load)		1mA 5V DC/50μA 3V DC
Electrical performance	Contact resistance (Initial performance/After lifetime)	2Ω max./5Ω max.
	Insulation resistance	100MΩ min. 100V DC
	Voltage proof	100V AC for 1 minute
Mechanical performance	Terminal strength	1N for 1 minute
	Actuator strength	5N
	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
Resistance to soldering heat	Manual soldering	350±5°C, 3s max.
	Reflow soldering	Refer to soldering conditions
Durability	Operating life without load	50,000 cycles 5Ω max.
	Operating life with load (Load: as ratings)	50,000 cycles 5Ω max. (1mA 5V DC)
Environmental performance	Cold	-40±2°C for 500h
	Dry heat	85±2°C for 500h
	Damp heat	60±2°C, 90 to 95%RH for 500h

3D CAD (STEP)	
Certificate of Compliance to RoHS regulations	

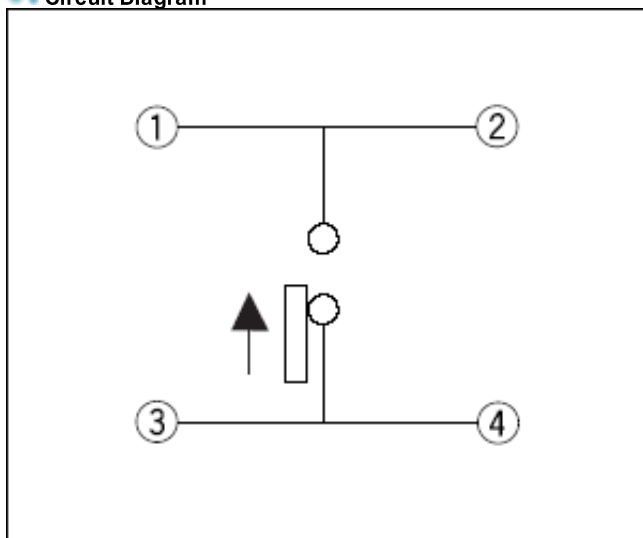
Photo



Dimensions

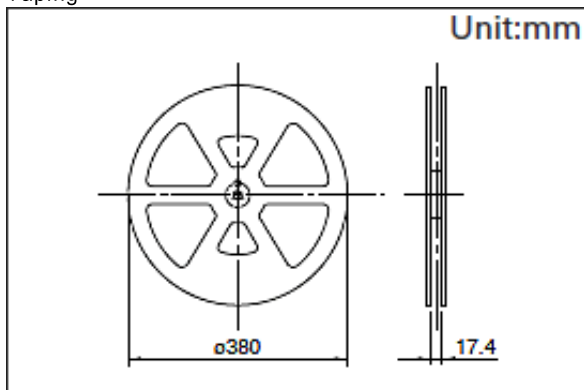


●● Circuit Diagram



●● Packing Specifications

Taping



Number of packages (pcs.)	1 reel	3,000
	1 case / Japan	6,000
	1 case / export packing	12,000
Tape width (mm)		16
Export package measurements (mm)		417×409×139

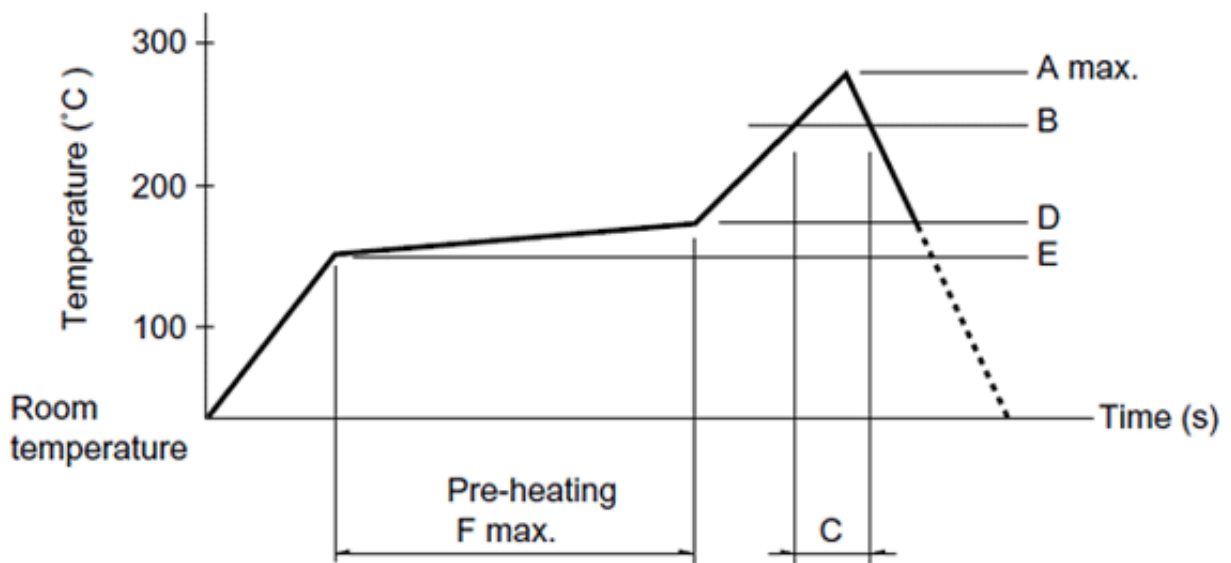
●● Soldering Conditions

Example of Reflow Soldering Condition

1. Heating method :
Double heating method with infrared heater.
2. Temperature measurement :
Thermocouple 0.1 to 0.2 Φ CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
3. Temperature profile
(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, 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.



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

NOTE

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. Please place purchase orders per minimum order unit (integer).
3. 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

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