

Mercury SIP Type (1a Mercury Relay)

Part number - Feature

SIW-1M-**-**

D: Diode
N: Magnetic-Shield
Coil Voltage

- Single-In-Line package type, it is compact, lightweight and easy to mount.

Performance

Specifications	Item	Standard
Contact Specifications	Contact Form	1a (make mercury)
	Contact Rating	50W
	Max. Switching Voltage	DC. 500V
	Max. Switching Current	1 A
	Max. Carry Current	2 A
	Contact Resistance	100 mΩ MAX (Initial)
Electrical Specifications	Breakdown Voltage	Open Contacts DC. 1000V (1 min) Contact to coil DC. 1000V (1 min)
	Insulation Resistance	Between all isolated pins $1 \times 10^{10} \Omega$ MIN (DC. 100V)
	Capacitance	Open Contact 1.0pF TYP.
	Thermal Electromotive Force	60 μV TYP.
	Operate Time	(1 Pulse) 2.5 mS MAX. (at Nominal Voltage)
	Release Time	(1 Pulse) 2.5 mS MAX. (at Nominal Voltage)
Mechanical Specifications	Vibration	20G (0 to 55Hz 1.5mm)
	Shock	30G (11mS 1/2 Sin Wave)
Environment	Operating Temperature	-10°C to +60°C
Life Expectancy	Mechanical	1X10 ⁹ MIN. Operations
	Electrical	DC. 10mV-10 μA 1X10 ⁹ MIN. Operations (R.L.)

Coil Specifications

Contact Form	Part Number	Nominal Voltage DC. $\pm 10\%$ (V)	Coil Resistance $\pm 10\%$ (Ω) at 20°C	Nominal Current (mA)	Must Operate Voltage MAX. (V) at 20°C
1a	SIW-1M-24 (D, N)	24	1800	13.3	16.8
	SIW-1M-12 (D, N)	12	450	26.6	8.4
	SIW-1M-05 (D, N)	5	150	33.3	3.8

Dimensions /Terminal Identification (Unit:mm)

Dimensions	Terminal Identification
(): dimensions of N-type with magnetic-shield weight about 2.0gr. N-type: about 3.3gr.	TOP VIEW SIW-1M-**-** SIW-1M-**-**D UP Note: Mount a relay to be UP indication arrow within $\pm 30^\circ\text{C}$ from a plumb line.