

ARTICLE CODE

SD - 1A 05 D M

SD Series



Nil:Standard
M:Metallic
Nil:Standard
D:With diode
Coil Voltage
3,5,12,24 VDC

Main Features:

- DIP Reed Relay.
- Completely washable.
- Surge strength 1,500 VDC(between coil & contact).
- Provide high speed,miniature and cost effective switching solution.

1A:1A;2A:2A;1B:1B;1C:1C

Model Name:SD

COIL RATING(at 20°C)

Nominal Voltage (VDC)	Coil Resistance (Ω)(±10%)	Power Consumption(W)	Nominal Current (mA)(±10%)	Pull In Voltage (VDC)	Drop Out Voltage (VDC)	Max. Allowable Voltage (VDC)
3V	250Ω	0.015W	5.0mA	2.25V	0.15V	5V
5V	500Ω	0.050W	10.0mA	3.75V	0.25V	10V
12V	1000Ω	0.144W	12.0mA	9.00V	0.60V	20V
24V	2000Ω	0.266W	12.0mA	18.00V	1.20V	28V

PERFORMANCE(at initial value)

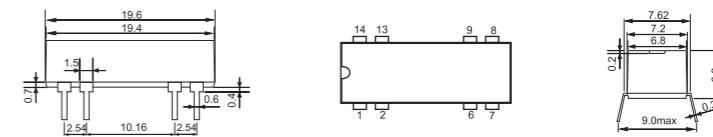
Item	Type	0.5A
Contact Resistance		150mΩ Max.(Initial Value)
Operate Time		0.5msec Max.
Release Time		0.2msec Max.
Dielectric Strength between Coil & Contact between Contact		1400VDC(1min) 200VDC(1min)
Insulation Resistance		1000MΩ Min.(DC500V)
Operating Ambient Temperature		-30°C ~+70 °C
Humidity		35 to 85% RH
Vibration Resistance		10G(10~55Hz) (Dual Amplitude:1.5mm)
Shock Resistance		10G
Life Expectancy Mechanically Electrically		100,000,000 ops.Min.(1800 ops./h) 50,000,000 ops.Min.(1200 ops./h)
Weight		2.8g(approx.)

CONTACT RATING

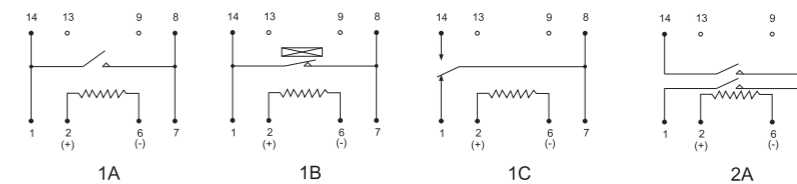
Item	Type	0.5A
Rated Carrying Current		0.1A/125VAC 0.5A/24VDC
Max. Allowable Current		1A
Max. Allowable Voltage		100VAC 100VDC
Max. Current(Continual)		0.5A
Max. Switching Power		10W,10VA
Max. Switching Voltage		200VDC
Max. Switching Current		0.5A
Contact Material		Ruthenium

OUTLINE DIMENSION,WIRING DIAGRAM & PC BOARD LAYOUT

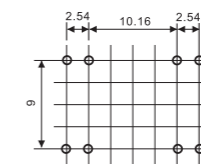
Unit: mm



Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
2) The tolerance without indicating for PCB layout is always ±0.1mm.