

## **Miniature Power Relay**

# **SRDA**



## Features

• Low coil power consumption.

- Micro-miniature relay, standard PCB terminals.
- IEC60335-1 compliant product is available.

#### Safety certificate

UL、c-UL (File No.): E190598 TUV (File No.): R50142424 CQC (File No.): CQC02001002126、CQC10002050459、CQC21002306489

## **Contact Data**

Туре	SRDA
Rated load (Resistive load)	10A 250VAC
Max. switching current	15A
Max. switching voltage	250VAC
Max. switching power	2,500VA
Min. switching load	6V 1A

Characteristics					
Contact material	Silver alloy				
Contact resistance	100mΩ Max. (at 1A 6VDC)				
Operate time (at rated coil voltage)	8ms Max. (No diode)				
Release time	5ms Max. (No diode)				
Insulation resistance	Min. 1,000MΩ (at 500VDC)				
Dialactric strongth	Between open contacts: 750VAC, 50/60Hz for 1min.				
Dielectric strength	Between coil and contact: 2,500VAC, 50/60Hz for 1min.				
Vibration resistance	Destructive	10~55Hz, at double amplitude of 1.5mm			
VIDIATION resistance	Functional	10~55Hz, at double amplitude of 1.5mm			
Shock resistance	Destructive	100G Min.			
Shock resistance	Functional	10G Min.			
Endurance	Mechanical endurance (10,800ops./h)	10,000,000(at room temperature)			
	Electrical endurance (360ops./h)	50,000(at room temperature)			
Ambient temperature	$-40^{\circ}C \sim +85^{\circ}C$ (No condensation)				
Weight	Approx. 8.0g				

Coil Data (at 20°C)							
Nominal voltage (VDC)	Nominal operating current ±10%(mA)	Coil resistance ±10%(Ω)	Max. allowable voltage	Operate voltage (Max.)	Release voltage (Min.)	Nominal operating power	
3	120.00	25		75% of nominal voltage	10% of nominal voltage	0.36W	
5	71.42	70					
6	60.00	100					
9	40.00	225					
12	30.00	400	130% of nominal				
15	24.00	625	voltage				
18	20.00	900					
24	15.00	1,600					
48	7.50	6,400					
60	6.00	10,000					

The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

Safety Certificate Ratings (Note: More details of approved ratings, please refer to the safety certificates)						
Certificates	CQC	TUV	UL/CUL			
File No.	CQC02001002126 CQC10002050459 CQC21002306489	R50142424	E190598			
Approved Ratings	10A 250VAC 7A 250VAC	10A 250VAC 7A 250VAC	15A 125VAC, Resistive 10A 250VAC, Resistive 7A 250VAC, General use			

(1) All values unspecified are at room temperature.

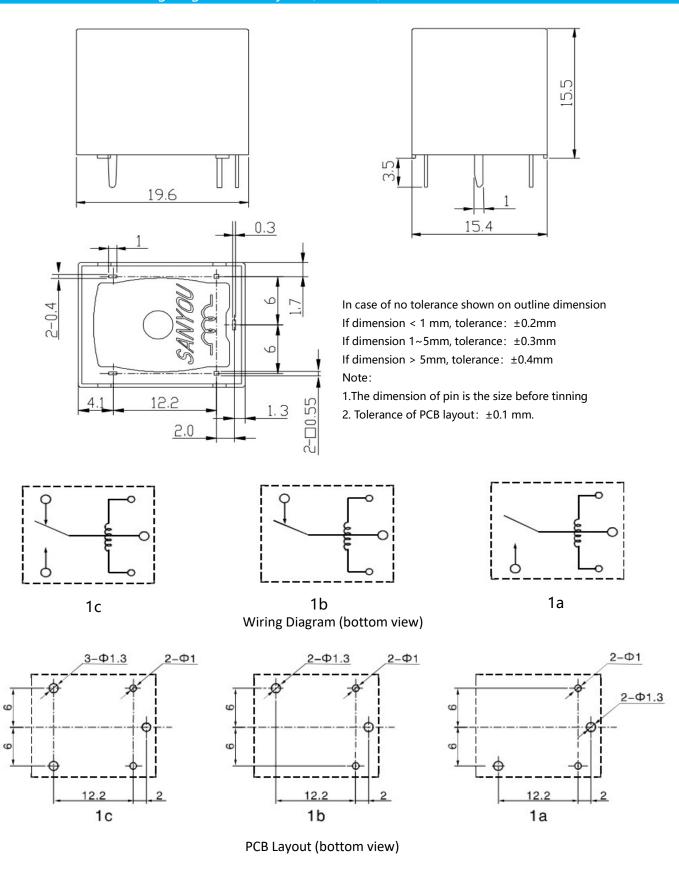
(2) Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.

(3) For sealed type testing, please open the ventilation hole in the case before test.

Ordering Information									
Nomenclature									
SRDA	-S	-1	12	D	М	6	-F	-XX	
									Special Parameter: Nil-Standard type Letter or number-Special requirement
			Insulation System : Ni-Standard B - Class B F - Class F						
									Contact Material : Nil -AgSnO <sub>2</sub> 6 - AgNi
									Contact Arrangement: Nil-Form C M-Form A
									Coil Power: D-0.36W
									Rated Coil Voltage(VDC): 03, 05, 06, 09, 12, 15, 18, 24, 48, 60
									Number of Poles: 1-1Pole
									Protective Construction: S-Flux-proof SH-Sealed type washable
									Type: SRDA

- (1) Flux-proof relays can not be used in the environment with pollutants like H<sub>2</sub>S, SO<sub>2</sub>,NO<sub>2</sub>, dust, etc.
- (2) Water cleaning or surface process is not suggested after the flux-proof relays are assembled on PCB.
- (3) Customized special suffix is available after being evaluated by Sanyou.

## Outline dimension, wiring diagram, PCB layout (Unit: mm)

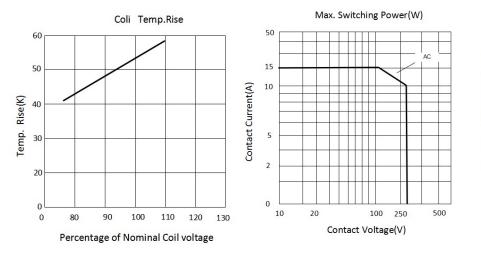


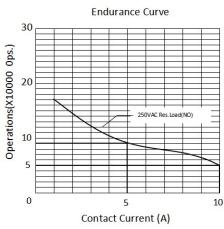
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#### **Typical Applications**

- •Home appliances: air conditioner, heater, etc.
- •Vending machine.
- •Office equipment: computer, fax machine, etc.
- •Electric controlled window, car antenna, door lock, etc.

### **Characteristic Curves**







 (1)Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.
(2)The above curves are for reference only, and the final result is

subject to the experiment.

#### Disclaimer:

The specification is for reference only. Specifications are subject to change without prior notice.

We could not evaluate all the performance and all the parameters for every possible applications. Thus the users should in a right position to choose suitable product for their own application. For sealed relays, after installation and cleaning, please open the ventilation hole in the case before use. If there is any query, please contact Sanyou for technical services. However it is the user's responsibility to determine which product should be used.