

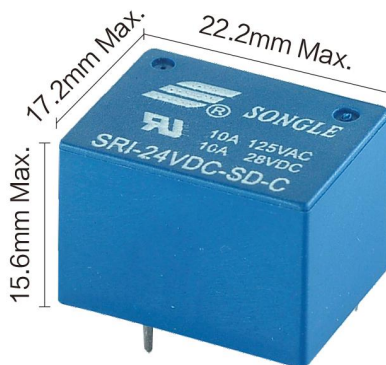
## 超小型中功率继电器

Subminiature Intermediate Power Relay

7A/10A

### 特性 / FEATURES

- 超小型、标准印制板引出脚  
Subminiature, standard PCB layout
- UL绝缘等级: F级绝缘等级  
UL insulation system: Class F
- 环境温度:  $-40^{\circ}\text{C}$ ~ $+85^{\circ}\text{C}$ / $+105^{\circ}\text{C}$   
Ambient temperature:  $-40^{\circ}\text{C}$ ~ $+85^{\circ}\text{C}$ / $+105^{\circ}\text{C}$



**RoHS**  
Compliant

### 订购信息 / ORDERING INFORMATION

## SRI-12VDC-S L-C

A/B/C	触点形式 Contact Arrangement
L 0.72W/D 0.54W/H 0.62W	线圈功率 Coil Power
S 密封/Sealed F 防焊剂/Flux proofed	封装形式 Construction
5/6/9/12/18/24/36VDC	线圈电压 Coil Voltage
	型号 Model

### 触点参数 / CONTACT PARAMETERS

触点形式	Contact arrangement	A, B, C
接触电阻	Contact resistance	$\leq 100\text{m}\Omega$ (1A 6VDC)
触点材质	Contact material	银合金/Silver alloy: $\text{AgSnO}_2\text{In}_2\text{O}_3$ 、 $\text{AgSnO}_2$ 、 $\text{AgNi}$
触点负载(阻性)	Contact rating(Res. load)	7A/10A 250VAC/28VDC
最大切换电压	Max switching voltage	300VAC/30VDC
最大切换电流	Max switching current	10A
最大切换功率	Max switching power	3000VA/300W
电耐久性 (频率:每小时360次)	Electrical endurance (Frequency:360 ops/h)	$1 \times 10^5$ ops / $1 \times 10^4$ ops
机械耐久性 (频率:每小时18000次)	Mechanical endurance (Frequency:18000 ops/h)	$1 \times 10^7$ ops

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**特性参数 / CHARACTERISTICS PARAMETERS**

绝缘等级	Insulation level		B/F
绝缘电阻	Insulation resistance		100MΩ(500VDC)
介质耐压 (漏电流 1mA)	Dielectric strength (Leakage current 1mA)	线圈与触点间 Between coil and contacts	2000VAC 1min
		断开触点间 Between open contacts	1000VAC 1min
吸合时间(额定电压下)	Operate time(at nominal voltage)		≤6ms
释放时间(额定电压下)	Release time (without diode) (at nominal voltage)		≤3ms
湿度	Humidity		5% ~ 85% RH
环境温度(°C)	Ambient temperature		-40°C ~ +85°C/+105°C
抗冲击	Shock resistance	稳定性/Functional	98m/s <sup>2</sup>
		强度/Destructive	980m/s <sup>2</sup>
抗振动(双振幅)	Vibration resistance (Double amplitude)		10Hz~55Hz 1.5mm
重量	Weight		约/Approx 11g
封装形式	Construction		密封/Sealed 防焊剂/Flux proofed

备注: 以上数据均为初始值

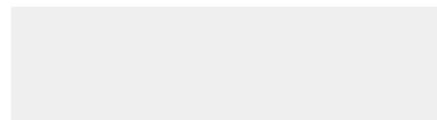
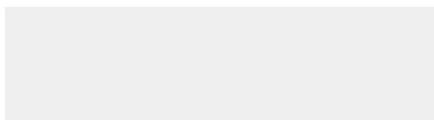
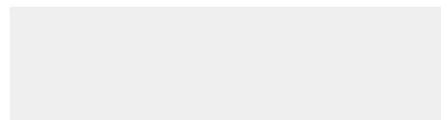
Remark: All above data is initial value

**线圈参数 / COIL PARAMETERS**

常温/At (23°C)

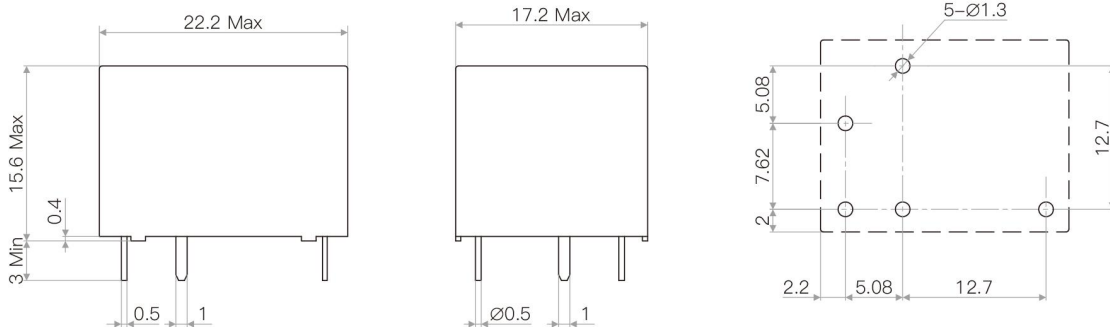
功耗(W)	Power consumption(W)	0.54W(D)						0.72W(L)						0.62W(H)		
		05	06	09	12	18	24	36	05	06	09	12	18	24	36	12
额定电压(VDC)	Nominal voltage(VDC)															
线圈电阻(Ω±10%)	Coil resistance(Ω±10%)	46.2	66.2	155	266.6	600	1066.6	2400	34.7	50	112.5	200	450	800	1800	232.2
吸合电压(Max)	Pick-up voltage(Max)	75% 额定电压(Nominal voltage)														80% 额定电压 (Nominal voltage)
释放电压(Min)	Drop-out voltage(Min)	10% 额定电压(Nominal voltage)														
允许最大电压(VDC)	Max allowable overdrive voltage(VDC)	130% 额定电压(Nominal voltage)														

**安全认证(相关认证以第三方认证证书为准) / SAFETY APPROVAL RATINGS**



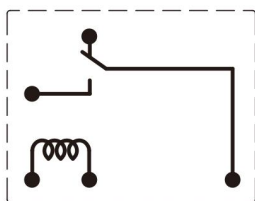
### 外形图 / OUTLINE DIMENSIONS

单位/Unit(mm)

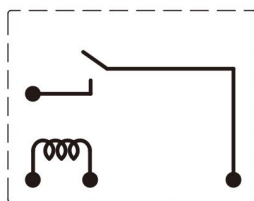


安装孔图(底视图)/Installation hole drawing(Bottom view)  
未注公差/Tolerance:±0.1

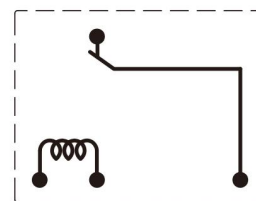
### 线路图(底视图) / WIRING DIAGRAM (BOTTOM VIEW)



转换C型/Conversion C type



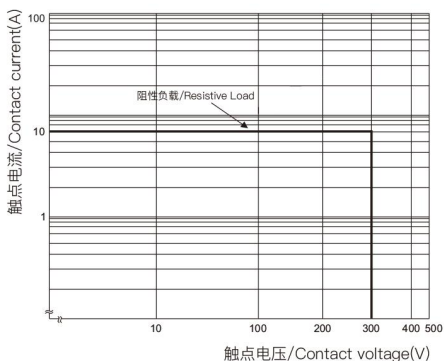
常开A型/Normally open A type



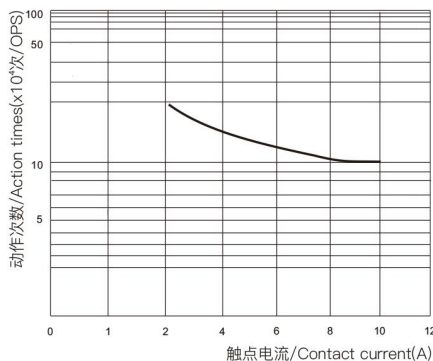
常闭B型/Normally closed B type

### 性能曲线图 / CHARACTERISTIC CURVES

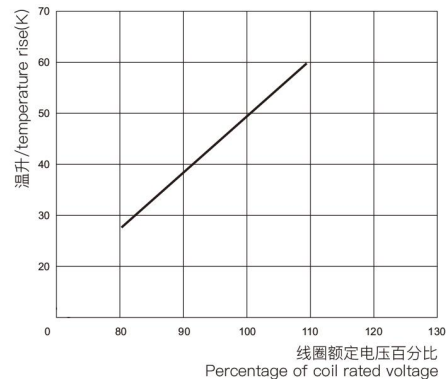
最大切换功率  
Maximum switching power



电耐久性曲线  
Electrical endurance curve



线圈温升  
Coil temperature rise



测试条件:  
NO, 10A 300VAC, 阻性负载, 防焊剂型, 室温, 1s通9s断。

Test conditions:  
NO, 10A 300VAC, Resistive load, Flux proofed,  
Room temp, 1s on 9s off.

测试条件: 90°C 10A  
安装间距: 25mm

Testing conditions: 10A at 90°C.  
Mounting distance: 25mm