



**Features**

- Miniature;
- Contact load capacity up to;
- PC board mounting and insert mounting available;
- Suitable for automobile system and automobile auxiliary etc;
- Sealed type available.

**Ordering Information 订货说明**

<b>WM651</b>	<b>-12</b>	<b>-A</b>	<b>-R</b>	<b>-P</b>	<b>-S</b>	<b>1.6</b>	<b>xxx</b>
1	2	3	4	5	6	7	8

1 Part number 继电器型号: WM651  
 2 Coil rated Voltage(VDC)线圈额定电压: 6: 6V; 12: 12V; 24: 24V  
 3 Contact Form 触点形式: A:1A; B:1B; C:1C  
 4 Coil transient suppression 线圈瞬态抑制: D: with diode 带二极管.; R: with resistance 带电阻; Nil: standard 常规  
 5 Terminals 引出脚方式: P: PCB type 为PCB 焊接式; Nil: plug in type 快接式  
 6 Enclosure 封装方式: S: Sealed 密封式  
 7 Coil power 线圈功率: 1.6: 1.6W(standard); 1: 1W  
 8 xxx: Customer special specification 客户特殊要求

**Contact Data 触点参数**

Contact Form 触点形式	1A (SPSTNO)、1B(SPSTNC)、1C (SPDT(B-M))		
Contact Material 触点材料	Ag Alloy		
Contact Rating (resistive) 触点负载 (阻性)	1A	1B	1C
	35A/14VDC	25A/14VDC	NO: 35A/14VDC, NC: 25A/14VDC
Max. Switching Voltage 最大切换电压	75VDC		
Max. Switching Current 最大切换电流	35A		
Max. Switching Power 最大切换功率	490W		
Contact Resistance or Voltage drop 接触电阻或接触压降	≤50mΩ		
Electrical Life 电气寿命	1×10 <sup>5</sup> 次		
Mechanical Life 机械寿命	1×10 <sup>7</sup> 次		

**Coil Parameter 线圈参数**

Dash numbers 规格	Coil voltage 线圈电压(VDC)		Coil resistance 线圈电阻 Ω±10%		Pickup voltage VDC (Max.) 最大起动力电压	Release voltage VDC(Min.) 最小释放电压	Operate Time 启动时间	Release Time 释放时间 *See notes
	Rated 额定	Max. 最大	1.6W	1W				
6V	6V	7.8V	22.5	35	4.2V	0.6V	≤10 ms	≤10 ms *1)
12V	12V	15.6V	90	140	8.4V	1.2V		
24V	24V	31.2V	360	560	16.8V	2.4V	≤15 ms	≤15 ms *2)

Notes: \*1) With resistance + 5ms; With diode + 10ms

\*2) With diode + 10ms



### Operation condition 工作条件

Insulation Resistance 绝缘电阻		100MΩ Min. (at 500VDC)
Dielectric Strength 介质耐压	Between Contacts	50Hz 500VAC / 1 minute
	Between Coil and Contacts	50Hz 750VAC / 1 minute
Shock resistance 抗冲击		100m/s <sup>2</sup> 11ms
Vibration resistance 抗震		10~40Hz double amplitude 1.27mm
Terminals strength 引出端强度		100N, 50N(for PCB type)
Solderability 可焊性		235°C±2°C 3±0.5s
Ambient Temperature 环境温度		-40°C ~ +85°C(Standard 常规); -40°C ~ +125°C(Special 特殊需求要说明)
Relative Humidity 相对湿度		85% (at 40°C)
Weight 重量(Approx.)		20g

### Layout (Bottom views, Unit: mm)外形尺寸、接线图 (底视图)

Dimensions / Wiring diagram (Bottom views)

**Plug in type**

**PCB type**

**Terminal Layout PCB type (Bottom view)**

**Terminal Layout Plug in type (Bottom views)**

**Wiring diagram (Bottom views)**

- Coil: standard
- Coil: with Resistance
- Coil: with Diode
- SPST (1A)
- SPST (1B)
- SPDT (1C)

### Reference Data 性能曲线图

