Automotive Relays YD**641** L×W×H(mm):29×29×26.5(+16)

Features

- Miniature;
- Contact load capacity up to 80A;
- Terminal types as inserting/PCB;
- Suitable for automobile;
- With socket button。

Ordering Information

YD641 - **12** - **H** - **M** **R**
1 **2** **3** **4** **5**
1 Part number：YD641
2 Coil rated Voltage(VDC)： 6: 6V；12: 12V；24: 24V
3 Contact Form： H: 1H；B: 1B；Z: 1Z
4 Coil transient suppression：D: with diode.； R: with resistance； Nil: standard

Contact Data

Contact Form	1H（SPSTNO）、1B（SPSTNC）、1Z（SPDT(B-M)）		
Contact Material	Ag Alloy		
Contact Rating (resistive)	1H	1B	1Z
	80A/14VDC	60A/14VDC	NO:80A/14VDC NC:60A/14VDC
Max. Switching Voltage	75VDC		
Max. Switching Current	80A		
Max. Switching Power	1120W		
Contact Resistance or Voltage drop	≤100mΩ		
Electrical Life	1×10^5		
Mechanical Life	1×10^7		

Coil Parameter

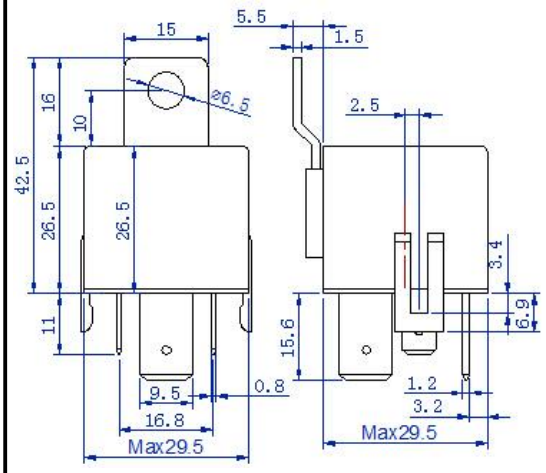
Dash numbers	Coil voltage (VDC)		Coil resistance Ω±10%	Pickup voltage VDC(Max.	Release voltage VDC(Min.)	Coil power	Operate Time	Release Time
	Rated	Max.						
6V	6V	7.8V	20	3.9V	0.6V	1.8W	≤7 ms	≤5 ms
12V	12V	15.6V	80	7.8V	1.2V			
24V	24V	31.2V	320	15.6V	2.4V			

Operation condition

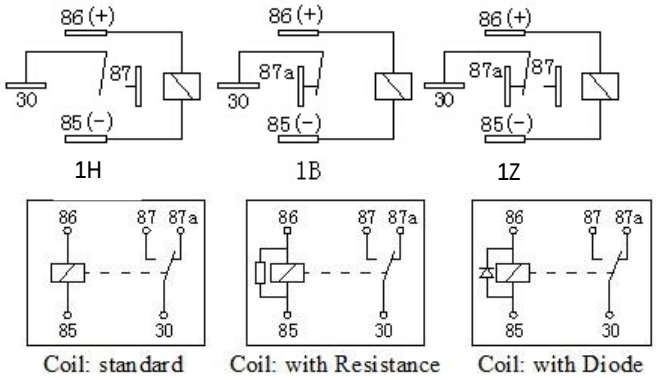
Insulation Resistance		100MΩ Min.（at 500VDC）
Dielectric Strength	Between Contacts	50Hz 500VAC / 1 minute
	Between Coil and Contacts	50Hz 750VAC / 1 minute
Shock resistance		147m/s^2 11ms
Vibration resistance		10~40Hz double amplitude 1.5mm
Terminals strength		100N
Solderability		235℃±2℃ 3±0.5s
Ambient Temperature		-40℃ ~ +85℃
Relative Humidity		85% (at 40℃)
Weight(Approx.)		48g

Layout (Bottom views, Unit: mm)

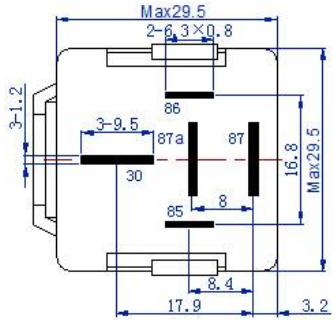
Dimensions / Wiring diagram (Bottom views)

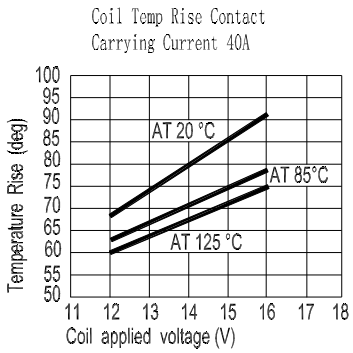
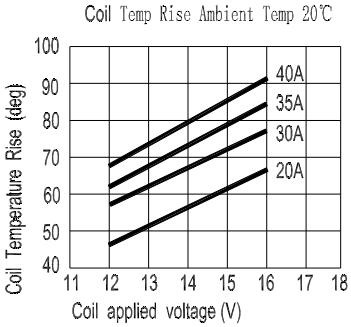
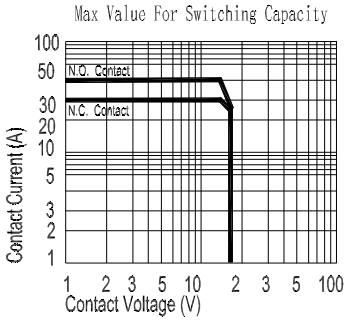


Metal Bracket



Wiring diagram (Bottom views)



Terminal Layout (Bottom views)

Reference Data