

# HD012 Series



## Features

- DC high voltage switching solution with compact and light weight .
- Max. contact rating 1000VDC.
- Coil holding voltage can be reduced to 45~55% V of the nominal coil voltage for saving energy.
- Also for inverter DC switching.
- Complies with RoHS-Directive 2011/65/EU.

## Description

Contact rating (Resistive load)	Max. carrying current 25A (for HD012) Max. carrying current 30A (for HD012H) Max. voltage 1000VDC Based on the customer demand to discuss the proposal by Song Chuan.
Coil voltage	12VDC
Power consumption	At rated voltage : Approx. 1.8W At holding voltage : Approx. 0.36W
Contact material	Ag alloy
Contact voltage drop <sup>(1)</sup>	Typ. 40mV at 10A
Operate time <sup>(1)</sup>	30ms Max.
Release time <sup>(1)</sup>	15ms Max.
Insulation resistance <sup>(1)</sup>	100MΩ Min. (DC 500V)
Dielectric strength <sup>(1)</sup>	Between open contact : AC 2000V, 50/60Hz 1 min. Between contact and coil : AC 2500V, 50/60Hz 1 min.
Operating ambient temperature	-40~+85° C (no freezing)
Weight	Approx. 65 g

※ Note : (1) Initial value. Operate and release time excluding contact bounce.

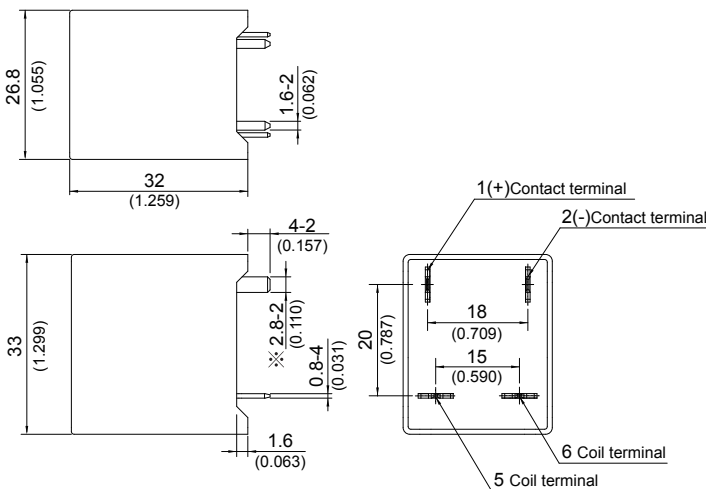
(2) Load sides with polarities (+) and (-) .

(3) To use a varistor could absorb the coil surge of relay. The life expectancy will be lower when a diode is used.

(4) Consider the heat of PCB is necessary with actual application.

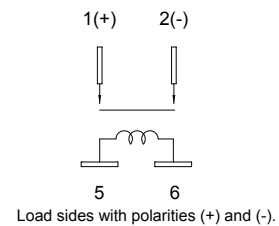
(5) Please contact Song Chuan for the detailed information.

## Outline Dimensions

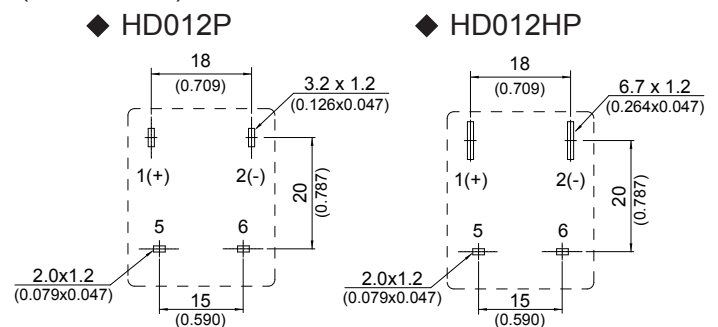


TOLERANCE:  
LESS THAN: 1(0.039) ±0.1(0.004)  
5(0.197) ±0.3(0.012)  
20(0.787) ±0.5(0.020)  
MORE THAN: 20(0.787) ±1(0.039)

## Wiring Diagram (bottom view)



## PC board layout (bottom view)



※ 6.3mm for HD012HP series.

## Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Song Chuan are reserved .