

# THD SERIES

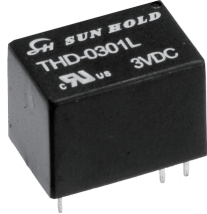
ORDER CODE  
THD-1201-D

THD: THD Series  
 1201: COIL VOLTAGE  
 D: D: 0.45W  
 L: 0.2W

COIL VOLTAGE

TYPE

03: DC 3V  
 05: DC 5V  
 06: DC 6V  
 09: DC 9V  
 12: DC 12V  
 24: DC 24V



**Main Features:**

- UL, CUR & TUV safety approval.
- Subminiature single pole Relay.
- Standard (450mw) & High sensitive (201mw) type.
- Plastic sealed type is prepared for washing procedure.

## COIL RATING (at 20°C)

	NOMINAL VOLTAGE (VDC)	COIL RESISTANCE ( $\Omega$ )( $\pm 10\%$ )	POWER CONSUMPT - ION(W)	NOMINAL CURRENT (mA)( $\pm 10\%$ )	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
D	3V	20 $\Omega$	0.45W	150.0mA	70% MAX.	10% MIN.	130%
	5V	56 $\Omega$		89.3mA			
	6V	80 $\Omega$		75.0mA			
	9V	180 $\Omega$		50.0mA			
	12V	320 $\Omega$		37.5mA			
	24V	1280 $\Omega$		18.8mA			

	NOMINAL VOLTAGE (VDC)	COIL RESISTANCE ( $\Omega$ )( $\pm 10\%$ )	POWER CONSUMPT - ION(W)	NOMINAL CURRENT (mA)( $\pm 10\%$ )	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
L	3V	45 $\Omega$	0.2W	66.7mA	70% MAX.	10% MIN.	130%
	5V	120 $\Omega$		41.7mA			
	6V	180 $\Omega$		33.3mA			
	9V	400 $\Omega$		22.5mA			
	12V	700 $\Omega$		17.0mA			
	24V	2800 $\Omega$		8.6mA			

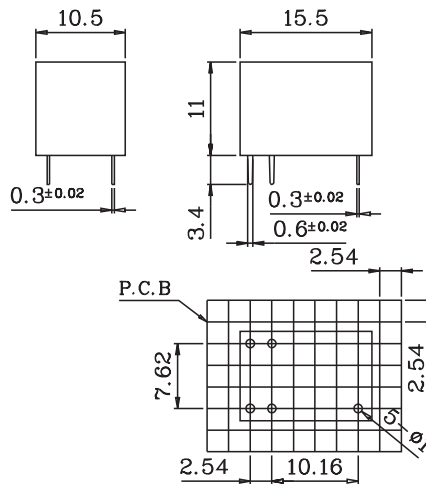
## PERFORMANCE (at initial value)

Item	Type	3A
Contact Resistance		50m $\Omega$ Max. (initial value)
Operate Time		5msec Max.
Release Time		5msec Max.
Dielectric Strength between coil & contact between contact		AC1500V (1min) AC1000V (1min)
Insulation Resistance		100M $\Omega$ Min.(DC500V)
Operating Ambient Temperature		-30°C ~ +75°C
Humidity		35 to 85% RH
Vibration Resistance		10G (10~55Hz)(Dual amplitude:1.5mm)
Shock Resistance		10G
Life Expectancy Mechanically Electrically		10,000,000 ops. Min. (1800 ops./h) 100,000 ops. Min. (1200 ops./h)
Weight		3.5g(about)

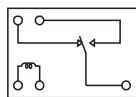
CONTACT RATING

Item \ Type	3A
Rated Carrying Current	DC24V 3A DC30V 1A AC120V 2A
Max. Allowable Current	3A
Max. Allowable Voltage	AC 120V DC 60V
Max. Current (continual)	3A
Min. Load	DC1V 1mA
Contact Material	Ag alloy

DIMENSIONS (Unit: mm)



WIRING DIAGRAMS (Bottom View)



REFERENCE DATA

