



# Relays & Solenoids

## SUN HOLD\_PCB Relays

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



### FEATURES

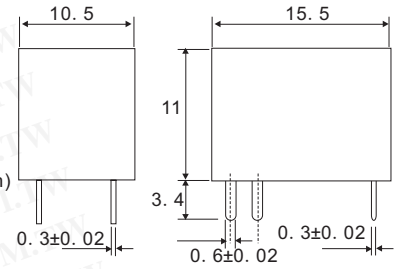
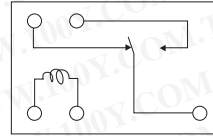
- UL & CUR safety approval.
- Subminiature single pole Relay.
- Standard (450mw) & High sensitive (201mw) type.
- Plastic sealed type is prepared for washing procedure.

### PERFORMANCE (at initial value)

Contact Resistance : 50mΩ Max. (initial value)  
 Operate Time : 5msec Max.  
 Release Time : 5msec Max.  
 Insulation Resistance : 100MΩ Min.(DC 500V)  
 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 : 10,000,000 ops. Min. (1800 ops./h)  
 Electrically : 100,000 ops. Min. (1200 ops./h)  
 Weight : 3.5g (about)

(Bottom view)



Part No.	Product No.	Manufacturer	Description	Type	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H
32185	THD-0501L	SUN HOLD	PCB Relay	THD	1A 30VDC/2A 120VAC/3A 24VDC	5VDC	UL,CUR	15.5*10.5*11



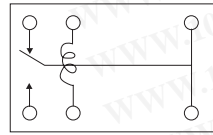
### FEATURES

- UL & CUR safety approval.
- Subminiature single pole Relay.
- Standard (360mw) & High sensitive (201mw) type.
- Plastic sealed type is prepared for washing procedure.

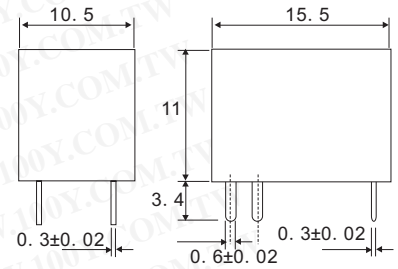
### PERFORMANCE (at initial value)

Contact Resistance : 50mΩ Max. (initial value)  
 Operate Time : 5msec Max.  
 Release Time : 5msec Max.  
 Insulation Resistance : 100MΩ Min.(DC 500V)  
 Operating Ambient Temperature : -25°C ~ +55°C  
 Humidity : 35 to 85% RH  
 Vibration Resistance : 10G (10~55Hz)(Dual amplitude: 1.5mm)  
 Shock Resistance : 10G

Life Expectancy  
 Mechanically : 10,000,000 ops. Min. (1800 ops./h)  
 Electrically : 100,000 ops. Min. (1200 ops./h)  
 Weight : 3.5g (about)  
 Dielectric Strength  
 between coil & contact : AC 1500V (1min)  
 between contact : AC 1000V (1min)



(Bottom view)



Part No.	Product No.	Manufacturer	Description	Type	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H
44712	THU-1203	SUN HOLD	PCB Relay	THU	1A 30VDC/2A 120VAC/3A 24VDC	12VDC	UL,CUR	15.5*10.5*11
41058	THU-2403	SUN HOLD	PCB Relay	THU	1A 30VDC/2A 120VAC/3A 24VDC	24VDC	UL,CUR	15.5*10.5*11

## Matsushita\_PCB Relays

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



### FEATURES

- Large capacity in small size: 10 A 250 V AC (1a)
- High sensitivity: 200 mW nominal operating power
- High breakdown voltage 4,000 Vrms between contacts and coil 1,000 Vrms between open contacts Meeting FCC Part 68
- Sealed construction
- Latching types available

### SPECIFICATIONS

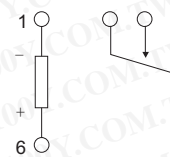
#### Characteristics

Max. operating speed : 20 cpm (at rated load)  
 Initial insulation resistance\*1: Min. 1,000 mΩ (at 500 V DC)  
 Initial breakdown voltage\*2  
 Between open contacts : 1,000 Vrms  
 Between contacts and coil : 4,000 Vrms  
 Surge voltage between coil and contact\*3: Min. 10,000 V  
 Operate time\*4 (at nominal voltage): Max. 10 ms (Approx. 5 ms)  
 Release time (without diode)\*4 (at nominal voltage): Max. 8 ms (Approx. 3 ms)  
 Temperature rise (at nominal voltage): Max. 40°C with nominal coil voltage and at 10 A switching current

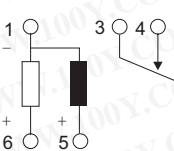
#### Coil

Nominal operating power: 200 mW

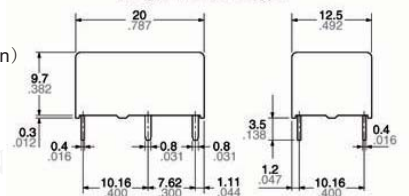
Schematic (Bottom view) Single side stable (Deenergized condition)



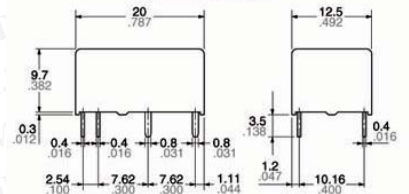
2 Coil latching (Reset condition)



Single side stable type



2 coil latching type



Max. switching current: 10 A

Min. switching capacity\*1: 10 mA, 5 V DC

Expected life (min. Operations):

Mechanical : 5×10<sup>7</sup>

Electrical (resistive): 10<sup>6</sup>(10 A 250 V AC, 10 A 30 V DC)

Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
45245	DK1A-5V-F	MATSUSHITA	Miniature PCB Power Relay	20*12.5*10	1 Form A	10A/250V	DC5V	TUV,VDE,CSA,UL	DK



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