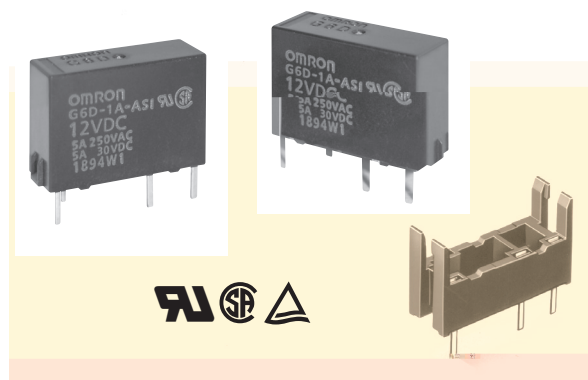


# Power PCB Relay G6D-ASI

- Reduced board space ideal for high-density mounting (45% smaller than the surface area of G6B).
- Slim package: measures 6.5 W x 17.5 L x 12.5 H mm
- Switches loads up to 5 A, 250 VAC/30 VDC.
- Sealed construction allows automatic soldering and cleaning.
- Long service life: up to 300,000 operations with a 2 A, 250 VAC/30 VDC load.
- Rated for D150 pilot duty by UL, CSA.
- Optional mounting socket simplifies relay installation and servicing of finished equipment.
- RoHS Compliant.



## Ordering Information

To Order: Select the part number and add the desired coil voltage rating, (e.g., G6D-1A-ASI-DC12).

Type	Contact form	Terminal	Construction	Model
Standard	SPST-NO	PCB	Fully sealed	G6D-1A-ASI

## Accessories

### Connecting Socket

Description	Model
PCB mount socket for G6D relay	P6D-04P

## Specifications

### Contact Data

Load	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.40, L/R = 7 ms)
<b>Rated load</b>	5 A at 250 VAC, 30 VDC	2 A at 250 VAC, 30 VDC
<b>Contact material</b>	Ag alloy	
<b>Carry current</b>	5 A	

**Note:** P level:  $\lambda_{60} = 0.1 \times 10^{-6}/\text{operation}$

## ■ Coil Data

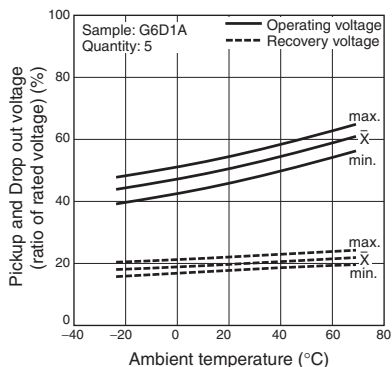
- Note:**
1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of  $\pm 10\%$ .
  2. Operating characteristics are measured at a coil temperature of 23°C (73°F).
  3. The pick-up voltage is 75% or less of rated voltage if the relay is mounted upside down.

## ■ Characteristics

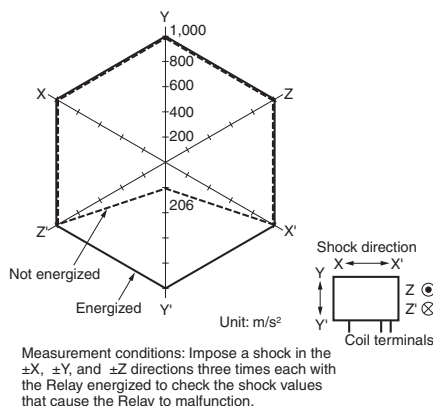
**Note:** Data shown are of initial value.

## ■ Characteristic Data

### Ambient Temperature vs. Pickup and Drop out Voltage G6D-1A-ASI



### Malfunctioning Shock G6D-1A-ASI



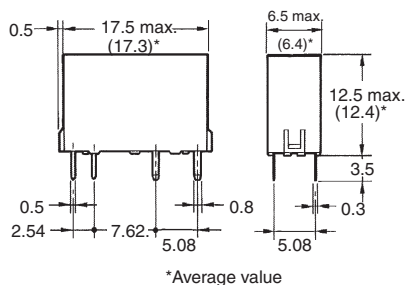
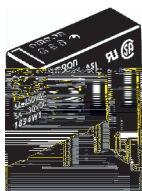
## Dimensions

Unit: mm (inch)

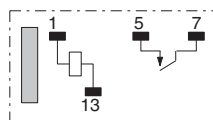
Note: Orientation marks are indicated as follows:

### Relays

#### G6D-1A-ASI

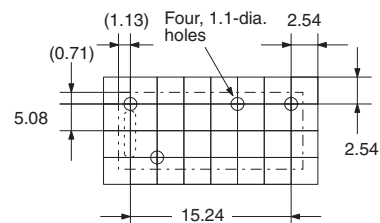


#### Terminal Arrangement/ Internal Connections (Bottom View)



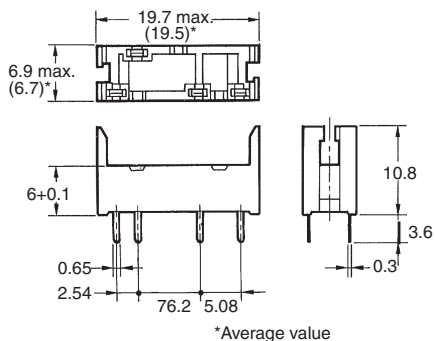
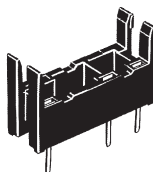
#### Mounting Holes (Bottom View)

Tolerance: ±0.1



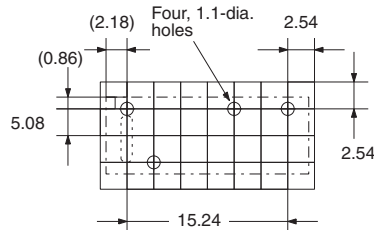
### Socket

#### P6D-04P



#### Mounting Holes (Bottom View)

Tolerance: ±0.1



## ■ Approvals

• The rated values approved by each of the safety standards may be different from the performance characteristics individually defined in this catalog.

### UL Recognized (File No. E41515) - - Ambient Temp. = 40°C

Model	Number of poles	Coil ratings	Contact ratings	Number of test operations
G6D-1A-ASI	1	5 to 24 VDC	5 A, 250 VAC	6,000
			5 A, 30 VDC	

### CSA Certified (File No. LR31928)

Model	Number of poles	Coil ratings	Contact ratings	Number of test operations
G6D-1A-ASI	1	5 to 24 VDC	5 A, 250 VAC (General Use)	6,000
			5 A, 30 VDC (Resistive)	

### EN/TÜV Approval (Registration No. R50029064/EN61810-1)

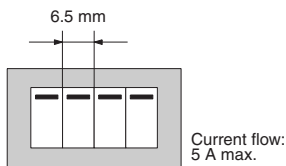
Model	Number of poles	Coil ratings	Contact ratings	Number of test operations
G6D-1A-ASI	1	5, 12, 24 VDC	5 A, 250 VAC (cosφ=1.0)	70,000
			5 A, 30 VDC (0 ms)	

- Note:** 1. The rated values approved by each of the safety standards (e.g., UL, CSA, TUV) may be different from the performance characteristics individually defined in this catalog.  
 2. In the interest of product improvement, specifications are subject to change.

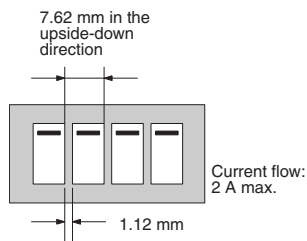
## Precautions

### ■ Spacing Between Relays

More than two relays can be closely mounted right side up as shown in the illustration below.



More than two relays can be closely mounted upside down as shown in the illustration below.



**Note:** The space between each relay required for heat radiation may vary with operating conditions.

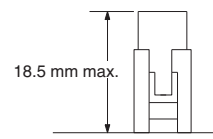
### ■ Socket Mounting

When mounting the relay, insert it into the socket as vertically as possible so that the relay terminals contact securely with the contact pins on the socket.

The P6D-04P socket is flux-resistant. Do not wash the socket with water.

Remove the relay from the socket before soldering the socket to a PC board.

#### Mounting height



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  - Including:** Including without limitation
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