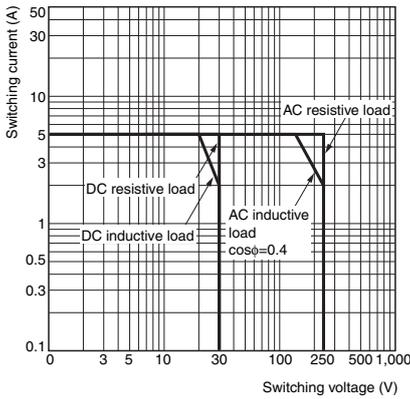


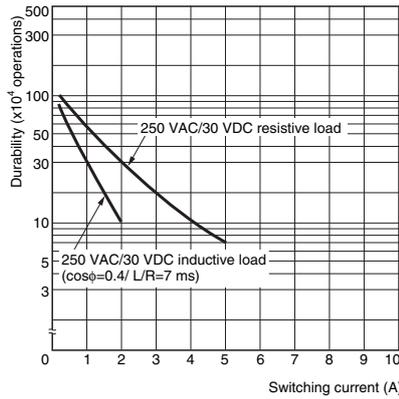


## Engineering Data

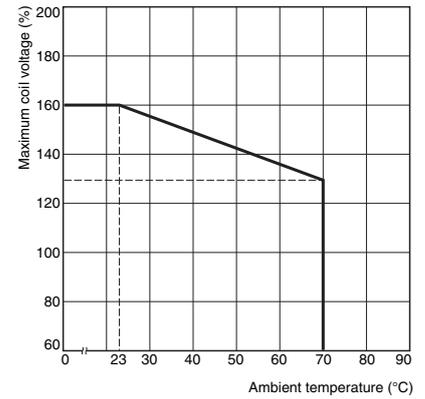
### Maximum Switching Capacity



### Durability



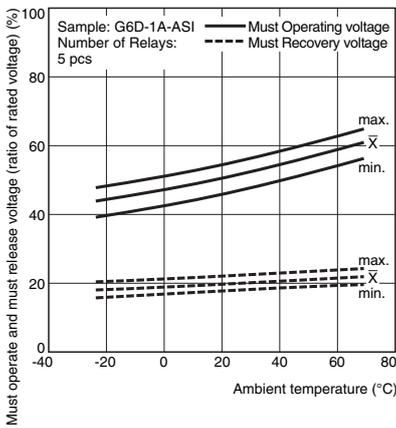
### Ambient Temperature vs. Maximum Coil Voltage



Note. The maximum coil voltage is the maximum voltage that can be applied to the relay coil.

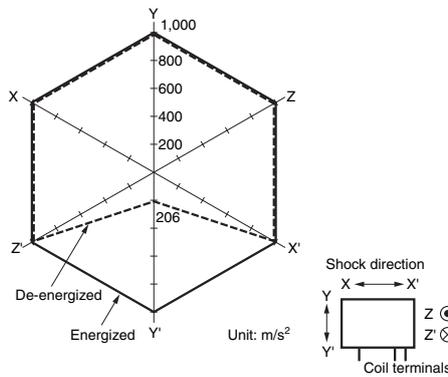
### Ambient Temperature vs. Must Operate and Must Release Voltages

#### G6D-1A-ASI (-AP)



### Shock Malfunction

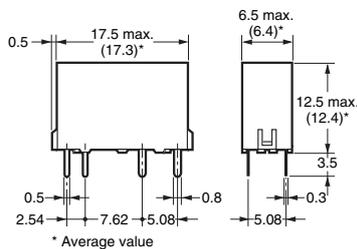
#### G6D-1A-ASI (-AP)



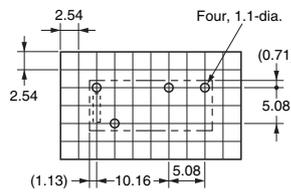
Sample: G6D-1A-ASI 24 VDC  
 Number of Relays: 5 pcs  
 Test conditions: Impose a shock in the  $\pm X$ ,  $\pm Y$ , and  $\pm Z$  directions three times each with the Relay energized to check the shock values that cause the Relay to malfunction.

## Dimensions

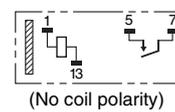
### G6D-1A-ASI (-AP)



### PCB Mounting Holes (Bottom View)

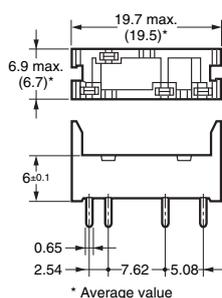
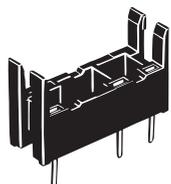


### Terminal Arrangement/ Internal Connections (Bottom View)

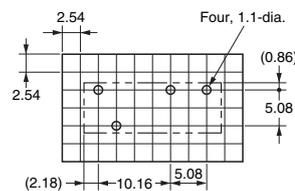


Note: Orientation marks are indicated as follows:

### Socket P6D-04P



### PCB Mounting Holes (Bottom View)



## Approved Standards

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

**UL Recognized** (File No. E41515)

| Model            | Number of poles | Coil ratings | Contact ratings   | Number of test operations |
|------------------|-----------------|--------------|-------------------|---------------------------|
| G6D-1A-ASI (-AP) | 1               | 5 to 24 VDC  | 5 A, 250 VAC 40°C | 6,000                     |
|                  |                 |              | 5 A, 30 VDC 40°C  |                           |

**CSA Certified** (File No. LR31928)

| Model            | Number of poles | Coil ratings | Contact ratings               | Number of test operations |
|------------------|-----------------|--------------|-------------------------------|---------------------------|
| G6D-1A-ASI (-AP) | 1               | 5 to 24 VDC  | 5 A, 250 VAC (Resistive) 40°C | 6,000                     |
|                  |                 |              | 5 A, 30 VDC (Resistive) 40°C  |                           |

**ENTÜV Certified** (Registration No. R50167084)

| Model            | Number of poles | Coil ratings  | Contact ratings              | Number of test operations |
|------------------|-----------------|---------------|------------------------------|---------------------------|
| G6D-1A-ASI (-AP) | 1               | 5, 12, 24 VDC | 5 A, 250 VAC (cosφ=1.0) 70°C | 70,000                    |
|                  |                 |               | 5 A, 30 VDC (0 ms) 40°C      |                           |

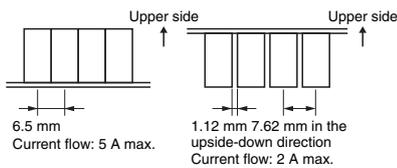
## Precautions

●Please refer to “PCB Relays Common Precautions” for correct use.

### Correct Use

#### ●Mounting

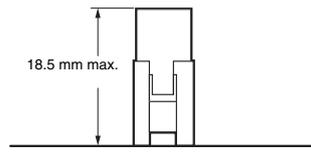
- More than two relays can be closely mounted right side up as shown in the following illustration.



Note. The space between each relay required for heat radiation may vary with operating conditions. Contact your OMRON representative for details.

- Use Surge Killer Diode when switching a DC inductive load in micro load (about 10 to 100 mA).  
(Carbon deposition may decrease the contact reliability.)

#### ●Socket Mounting Height



#### ●Mounting to a P6D

- The P6D is flux-resistant. Do not wash the P6D with water.
- Dismount the relay from the socket before soldering the socket to a PCB.

· Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.  
· Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

**Note: Do not use this document to operate the Unit.**

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