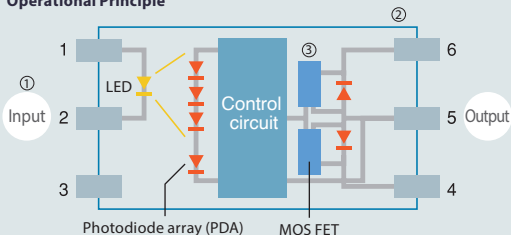


# MOS FET Relay G3VM

## Operational Principle



- ① The LED lights up when the current is connected at the input side.
- ② The light sent by the LED will be converted into voltage when it is received by the photodiode.
- ③ This voltage will be the gate voltage to drive the MOS FET via control circuit.

## MOS FET Relay Feature

### Ultra small size

Contributing to downsizing of customer equipment by using our compact MOS FET relay like VSON and S-VSON.

### Long operating life

MOS FET Relays use light signal instead of moveable contacts, avoiding reduction of life caused by contact wear, substantially increasing operational life.

### Silent operation

As MOS FET Relays do not have mechanical contacts, using a MOS FET instead of an electromechanical relay can help to eliminate switching noise in applications.

G3VM - □ □ □ □ □ □ □

① ② ③ ④ ⑤ ⑥

① Load voltage    ② Contact form    ③ Appearance    ④ Additional functions    ⑤ Serial code    ⑥ Input forward voltage

2:20 V 8:80 V  
3:30 V 10:100 V  
4:40 V 20:200 V  
5:50 V 35:350 V  
6:60 V 40:400 V  
7:75 V 60:600 V

1:1a contact  
2:2a contact  
3:1b contact  
4:2b contact  
5:1a1b contact

A: DIP 4-pin PCB terminal  
B: DIP 6-pin PCB terminal  
C: DIP 8-pin PCB terminal  
D: DIP 4-pin surface-mount terminal  
E: DIP 6-pin surface-mount terminal  
F: DIP 8-pin surface-mount terminal

G: SOP 4-pin  
H: SOP 6-pin  
J: SOP 8-pin  
L: SSOP 4-pin  
P: USOP 4-pin  
Q: S-VSON 4-pin  
U: VSON 4-pin  
V: SOP 4-pin (special)  
W: P-SON 4-pin

L: Current limit  
R: Low ON-resistance type  
Y: Dielectric strength between I/O above 2.5 kV type  
V: Voltage driving type

When specifications overlap, a serial code (number) is added.

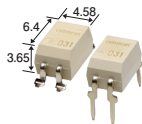
H: High input forward voltage  
L: Low input forward voltage  
\*Some voltage driving types only



## G3VM Main Package Types

### DIP

Mounting area  
100%



### SOP

Mounting area  
62%



### SSOP

Mounting area  
24%



### USOP

Mounting area  
20%



### P-SON

Mounting area  
19%



### VSON(R)

Mounting area  
10%



### VSON

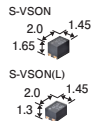
Mounting area  
9%



### S-VSON

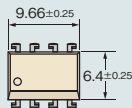
Mounting area  
8%

\*84% of VSON

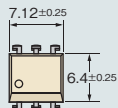


## DIP (Dual Inline Package)

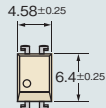
### DIP8



### DIP6

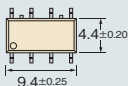


### DIP4

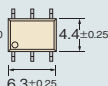


## SOP (Small Outline Package)

### SOP8



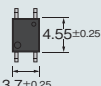
### SOP6



### SOP4



### Special SOP4



▶ MOVIE

## SON (Small Outline Non-led)



P-SON



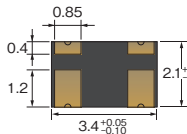
VSON4 / VSON(R)4



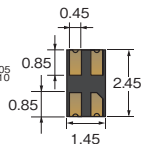
S-VSON



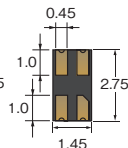
### P-SON



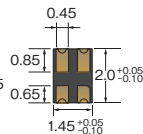
### VSON4



### VSON(R)4



### S-VSON



The unspecified dimension tolerance is  $\pm 0.1$  mm.