

OMRON



A wide range of contact forms and functions
Over 250 different models available

G3VM MOSFET RELAY

Selection Guide

Ultra small outline package "USOP series" expansion
DIP high-capacity & Low ON resistance series expansion
New DIP small series with High Dielectric Strength available



MOS FET Relays
G3VM Series

About MOS FET relays

Omron's Mos Fet Relays lead the industry in Solid State Relay technology, utilizing a LED, PDA and Mos Fet in the load switching current. Our G3VM series of relays offer many benefits including low maintenance costs, small footprint and high-speed switching. As a suitable replacement for a mechanical relay, Mos Fet relays are displacing reed relays as well as relays containing mercury. OMRON has expanded the product lineup by introducing their smallest relay* to date, the new ultra small outline package(USOP) and SSOP which lead the industry in size and performance, with high switching capacity and high sensitivity series available.

*As of September, 2012.

Advantages of MOS FET relays

Ultra small and Weight

Leading the market with substantial space saving offered in our SSOP and new USOP package size

Low driving current

Standard driving current is 2-15mA.
Ultrasensitive type with driving current 1mA(max.) available.

Long operating life

Realize the structure without contacts by sending light signal. Avoid the reduction of life caused by wear of contacts, and realize extended operational life.

Small leakage current

Can withstand external surge current, and not add the snubber circuit. Under normal condition, it is 1 nanometer A or below (GR, LR type), and the leakage current is very small when close.

Excellent shock resistance

All the internal parts use the casting method, and there is not movable part in it, so it has excellent shock resistance and vibration resistance.

High insulation

It turns the voltage into the light, and transfers by the light signal, so it is electrical insulation. It not only can ensure that the Dielectric strength between input and output under normal condition is AC 2500V, but also realizes the serialization of upper 5000V product at the same time, and realize the high insulation.

Silent operation

Avoid the switching voice caused by metal contacts of mechanical relay. Realize the function of silence.

High-speed switching

Comparing with the switching time of 3 ~ 5ms of mechanical relay, its switching time is shortened to 1ms. Realize the quick response performance.

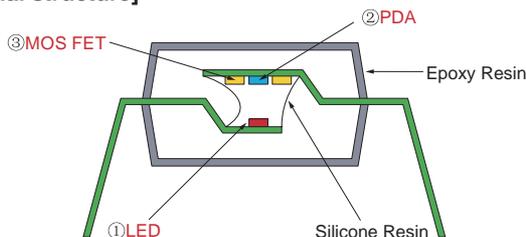
Control the micro analog signal correctly

Comparing with the triac, it reduces the dead zone greatly. The input waveform of micro analog signal dose not distort basically and is converted into output waveform without distortion.



Structure and operational principle of MOS FET relays

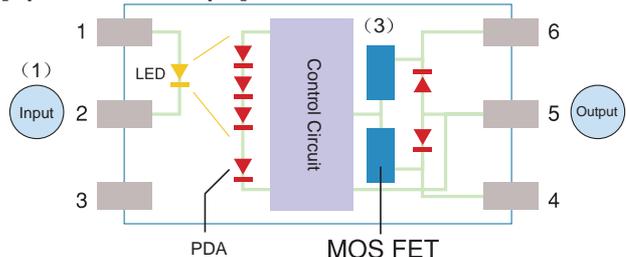
[Internal structure]



MOS FET relay consists of the following three components:

- ① LED (light emitting diode)
- ② Photodiode dome array (PDA)
- ③ MOS FET

[Operational Principle] (2)

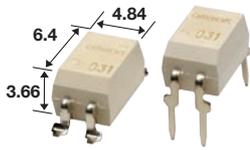


- (1) The LED lights when the current is connected at the input side.
- (2) The light sent by the LED will be converted into voltage again when it is received by the photodiode.
- (3) This voltage will be a gate voltage to drive MOS FET via control circuit.

Package of MOS FET Relays

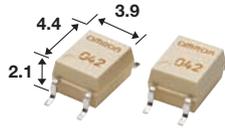
DIP

■ Bottom surface
100%



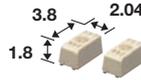
SOP

■ Bottom surface
59%



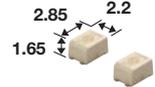
SSOP

■ Bottom surface
19%



USOP

■ Bottom surface
16%



Competitor's SSOP Package

OMRON SSOP **OMRON USOP**

New package USOP **SSOP**

6pitch
5pitch
4pitch
3pitch
4pitch
3pitch
2pitch
2pitch

1pitch=1.27mm

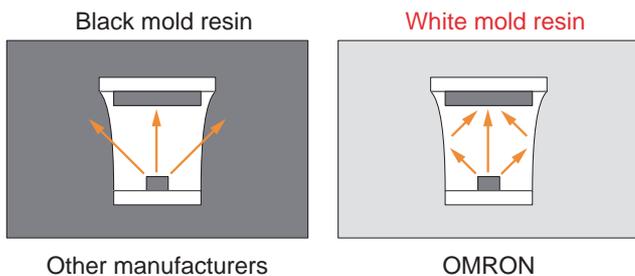
**Omron's SSOP leads the industry in size* and performance.
New ultra small outline package USOP available !**

*As of September, 2012.

Features of Omron's technology

1. White Mold

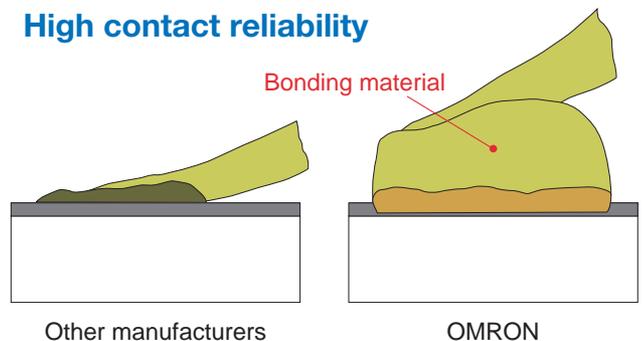
High efficient light conductivity



Black mold: only can receive the direct light from LED
White mold: can receive the indirect reflecting light from both LED and resin

2. BWB Bonding

High contact reliability



OMRON uses more bonding material than that used by other manufacturers; in an effort to improve the contact reliability.

MOS FET Relay Lineup

High Current & Low On-resistance Type

Ideal for power circuit with high current and low on-resistance



| Package | Model | Load Voltage(V) Max. | Continuous load current (mA) Max. | Typical ON resistance(Ω) |
|-----------------------|---------------------------|----------------------|-----------------------------------|--------------------------|
| DIP | G3VM-21AR/DR NEW | 20 | 3 | 0.04 |
| | G3VM-21BR/ER NEW | 20 | 4(8)* | 0.02(0.005)* |
| | G3VM-41AR/DR NEW | 40 | 2.5 | 0.05 |
| | G3VM-41BR/ER NEW | 40 | 3.5(7)* | 0.03(0.008)* |
| | G3VM-61AR/DR NEW | 60 | 2 | 0.08 |
| | G3VM-61BR/ER | 60 | 2.5 | 0.065 |
| | G3VM-61BR1/ER1 NEW | 60 | 3(6)* | 0.04(0.01)* |
| | G3VM-101AR/DR NEW | 100 | 1 | 0.25 |
| | G3VM-101BR/ER NEW | 100 | 2(4)* | 0.1(0.025)* |
| SOP | G3VM-21HR | 20 | 2.5(5)* | 0.02(0.005)* |
| | G3VM-41GR8 | 40 | 1 | 0.1 |
| | G3VM-41HR NEW | 40 | 2.5(5)* | 0.03(0.008)* |
| | G3VM-61GR1 | 60 | 1 | 0.25 |
| | G3VM-61HR NEW | 60 | 2.3(4.6)* | 0.04(0.01)* |
| | G3VM-81HR | 80 | 1.25(2.5)* | 0.11(0.03)* |
| G3VM-101HR NEW | 100 | 1.4(2.8)* | 0.1(0.025)* | |

*()=C-connection

New Ultra Small Outline Package USOP Type

USOP with low C (capacity between terminals) × R (output on-resistance)



USOP

| Model | Load Voltage(V) Max. | Continuous load current(mA) Max. | Typical ON resistance(Ω) | Capacity between terminals (pF) Typ. |
|------------------------|----------------------|----------------------------------|--------------------------|--------------------------------------|
| G3VM-21PR10 NEW | 20 | 200 | 3 | 0.8 |
| G3VM-21PR11 NEW | 20 | 900 | 0.18 | 40 |
| G3VM-41PR12 NEW | 40 | 100 | 15 | 0.3 |
| G3VM-41PR10 NEW | 40 | 120 | 12 | 0.45 |
| G3VM-41PR11 NEW | 40 | 140 | 7 | 0.7 |
| G3VM-51PR NEW | 50 | 300 | 1 | 12 |
| G3VM-61PR1 NEW | 60 | 120 | 10 | 0.7 |
| G3VM-61PR NEW | 60 | 400 | 1 | 20 |

Small & High Dielectric Strength Type

Dielectric Strength between I/O 5,000Vrms with small DIP4.

Low Power Consumption at 2mA (maximum) driving current*.

*Driving current=Trigger LED forward current



| Model | Load Voltage(V) Max. | Continuous load current (mA) Max. | Maximum Trigger LED forward current (mA) | Dielectric strength between input and output (Vrms) Max. |
|--------------------------|----------------------|-----------------------------------|--|--|
| G3VM-41AY/DY NEW | 40 | 2000 | 2 | 5000 |
| G3VM-61AY/DY NEW | 60 | 500 | 2 | 5000 |
| G3VM-201AY/DY NEW | 200 | 250 | 2 | 5000 |
| G3VM-351AY/DY NEW | 350 | 100 | 2 | 5000 |
| G3VM-401AY/DY NEW | 400 | 120 | 2 | 5000 |
| G3VM-601AY/DY NEW | 600 | 90 | 2 | 5000 |

Ultrasensitive Type

Ideal for power saving with a driving current* 1mA(maximum)

*Driving current=Trigger LED forward current



| Model | Load Voltage(V) Max. | Continuous load current (mA) Max. | Maximum Trigger LED forward current (mA) | Operating LED forward current (mA) |
|------------|----------------------|-----------------------------------|--|------------------------------------|
| G3VM-61G2 | 60 | 400 | 1 | 2 |
| G3VM-201G1 | 200 | 200 | 1 | 2 |
| G3VM-351G1 | 350 | 100 | 1 | 2 |
| G3VM-601G | 600 | 90 | 1 | 2 |

Low Capacity between terminals & Low On-resistance Type (Low C × R)

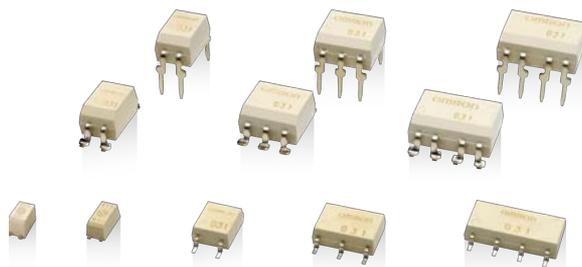
Ideal for semi-conductor test equipment. low C(capacity between terminals) × R(output on-resistance) type

■ SOP package

| Model | Load Voltage(V) Max. | Continuous load current(mA) Max. | Typical ON resistance(Ω) | Capacity between terminals (pF) Typ. |
|------------|----------------------|----------------------------------|--------------------------|--------------------------------------|
| G3VM-21GR | 20 | 160 | 5 | 1 |
| G3VM-21GR1 | 20 | 300 | 1 | 5 |
| G3VM-41GR4 | 40 | 250 | 2 | 5 |
| G3VM-41GR5 | 40 | 300 | 1 | 10 |
| G3VM-41GR6 | 40 | 120 | 10 | 1 |
| G3VM-81GR | 80 | 40 | 16 | 2.5 |
| G3VM-81GR1 | 80 | 200 | 5 | 6.5 |

■ SSOP package

| Model | Load Voltage(V) Max. | Continuous load current(mA) Max. | Typical ON resistance(Ω) | Capacity between terminals (pF) Typ. |
|-------------|----------------------|----------------------------------|--------------------------|--------------------------------------|
| G3VM-21LR | 20 | 160 | 5 | 1 |
| G3VM-21LR1 | 20 | 450 | 0.8 | 5 |
| G3VM-21LR10 | 20 | 200 | 3 | 0.8 |
| G3VM-41LR4 | 40 | 250 | 2 | 5 |
| G3VM-41LR5 | 40 | 300 | 1 | 10 |
| G3VM-41LR6 | 40 | 120 | 10 | 1 |
| G3VM-41LR10 | 40 | 120 | 12 | 0.45 |
| G3VM-41LR11 | 40 | 140 | 7 | 0.7 |



Product lineup of MOS FET Relays

DIP(Dual Inline Package)

| Load Voltage(V) Max. | Model | Number of terminals | Contact form | Continuous load current (mA) Max. | Typical ON resistance(Ω) | Maximum turn-ON time (ms) | Maximum turn-OFF time (ms) | Dielectric strength between input and output (Vrms) Max. |
|-------------------------|---------------------------|------------------------|--------------|--------------------------------------|--------------------------------------|------------------------------|-------------------------------|--|
| 20 | G3VM-21AR/DR <i>NEW</i> | 4 | 1a | 3000 | 0.04 | 5.0 | 1.0 | 2500 |
| 20 | G3VM-21BR/ER <i>NEW</i> | 6 | 1a | 4000 | 0.02 | 5.0 | 1.0 | 2500 |
| 40 | G3VM-41AY/DY <i>NEW</i> | 4 | 1a | 2000 | 0.09* | 5.0 | 1.0 | 5000 |
| 40 | G3VM-41AR/DR <i>NEW</i> | 4 | 1a | 2500 | 0.05 | 5.0 | 1.0 | 2500 |
| 40 | G3VM-41BR/ER <i>NEW</i> | 6 | 1a | 3500 | 0.03 | 5.0 | 1.0 | 2500 |
| 60 | G3VM-61A1/D1 | 4 | 1a | 500 | 1 | 2.0 | 0.5 | 2500 |
| 60 | G3VM-61AY/DY <i>NEW</i> | 4 | 1a | 500 | 0.6 | 1.0 | 1.0 | 5000 |
| 60 | G3VM-61AR/DR <i>NEW</i> | 4 | 1a | 2000 | 0.08 | 5.0 | 1.0 | 2500 |
| 60 | G3VM-61B1/E1 | 6 | 1a | 500 | 1 | 2.0 | 0.5 | 2500 |
| 60 | G3VM-61BR/ER | 6 | 1a | 2500 | 0.065 | 1.5 | 0.4 | 2500 |
| 60 | G3VM-61BR1/ER1 <i>NEW</i> | 6 | 1a | 3000 | 0.04 | 5.0 | 1.0 | 2500 |
| 60 | G3VM-62C1/F1 | 8 | 2a | 500 | 1 | 2.0 | 0.5 | 2500 |
| 100 | G3VM-101AR/DR <i>NEW</i> | 4 | 1a | 1000 | 0.25 | 5.0 | 1.0 | 2500 |
| 100 | G3VM-101BR/ER <i>NEW</i> | 6 | 1a | 2000 | 0.1 | 5.0 | 1.0 | 2500 |
| 200 | G3VM-201AY/DY <i>NEW</i> | 4 | 1a | 250 | 5 | 1.0 | 1.0 | 5000 |
| 350 | G3VM-351AY/DY <i>NEW</i> | 4 | 1a | 100 | 35* | 1.0 | 1.0 | 5000 |
| 350 | G3VM-2L/2FL | 4 | 1a | 120 | 22 | 1.0 | 1.0 | 2500 |
| 350 | G3VM-351A/D | 4 | 1a | 120 | 35* | 1.0 | 1.0 | 2500 |
| 350 | G3VM-351B/E | 6 | 1a | 120 | 35 | 1.0 | 1.0 | 2500 |
| 350 | G3VM-352C/F | 8 | 2a | 120 | 35* | 1.0 | 1.0 | 2500 |
| 350 | G3VM-WL/WFL | 8 | 2a | 120 | 22 | 1.0 | 1.0 | 2500 |
| 350 | G3VM-353A/D | 4 | 1b | 150 | 15 | 1.0 | 3.0 | 2500 |
| 350 | G3VM-353B/E | 6 | 1b | 150 | 15 | 1.0 | 3.0 | 2500 |
| 350 | G3VM-354C/F | 8 | 2b | 150 | 15 | 1.0 | 1.0 | 2500 |
| 350 | G3VM-355CR/FR | 8 | 1a1b | 120 | 15 | 1.0 | 3.0 | 2500 |
| 400 | G3VM-401A/D | 4 | 1a | 120 | 18 | 1.0 | 1.0 | 2500 |
| 400 | G3VM-401AY/DY <i>NEW</i> | 4 | 1a | 120 | 22* | 1.0 | 1.0 | 5000 |
| 400 | G3VM-401B/E | 6 | 1a | 120 | 17 | 1.0 | 1.0 | 2500 |
| 400 | G3VM-401BY/EY | 6 | 1a | 120 | 17 | 1.0 | 1.0 | 5000 |
| 400 | G3VM-402C/F | 8 | 2a | 120 | 18 | 1.0 | 1.0 | 2500 |
| 600 | G3VM-601AY/DY <i>NEW</i> | 4 | 1a | 90 | 45* | 1.0 | 1.0 | 5000 |
| 600 | G3VM-601BY/EY | 6 | 1a | 100 | 30 | 1.5 | 1.0 | 5000 |

On-resistance when saturated

SOP(Small Outline Package)

| Load Voltage(V) Max. | Model | Number of terminals | Contact form | Continuous load current (mA) Max. | Typical ON resistance(Ω) | Maximum turn-ON time (ms) | Maximum turn-OFF time (ms) | Dielectric strength between input and output (Vrms) Max. |
|-------------------------|-----------------------|------------------------|--------------|--------------------------------------|--------------------------------------|------------------------------|-------------------------------|--|
| 20 | G3VM-21GR | 4 | 1a | 160 | 5 | 0.5 | 0.5 | 1500 |
| 20 | G3VM-21GR1 | 4 | 1a | 300 | 1 | 0.5 | 0.5 | 1500 |
| 20 | G3VM-21HR | 6 | 1a | 2500 | 0.02 | 5.0 | 1.0 | 1500 |
| 40 | G3VM-41GR4 | 4 | 1a | 250 | 2 | 0.5 | 0.5 | 1500 |
| 40 | G3VM-41GR5 | 4 | 1a | 300 | 1 | 0.5 | 0.5 | 1500 |
| 40 | G3VM-41GR6 | 4 | 1a | 120 | 10 | 0.5 | 0.5 | 1500 |
| 40 | G3VM-41GR8 | 4 | 1a | 1000 | 0.1 | 3.0 | 0.5 | 1500 |
| 40 | G3VM-41HR <i>NEW</i> | 6 | 1a | 2500 | 0.03 | 5.0 | 1.0 | 1500 |
| 60 | G3VM-61VY <i>NEW</i> | 4 | 1a | 70 | 25 | 5.0 | 5.0 | 3750 |
| 60 | G3VM-61G1 | 4 | 1a | 400 | 1 | 2.0 | 0.5 | 1500 |
| 60 | G3VM-61G2 | 4 | 1a | 400 | 1 | 8.0 | 3.0 | 1500 |
| 60 | G3VM-61GR1 | 4 | 1a | 1000 | 0.25 | 3.0 | 1.0 | 1500 |
| 60 | G3VM-61H1 | 6 | 1a | 400 | 1 | 2.0 | 0.5 | 1500 |
| 60 | G3VM-61HR <i>NEW</i> | 6 | 1a | 2300 | 0.04 | 5.0 | 1.0 | 1500 |
| 60 | G3VM-62J1 | 8 | 2a | 400 | 1 | 2.0 | 0.5 | 1500 |
| 80 | G3VM-81G1 | 4 | 1a | 350 | 1 | 0.5 | 0.5 | 1500 |
| 80 | G3VM-81GR | 4 | 1a | 40 | 16 | 0.5 | 0.5 | 1500 |
| 80 | G3VM-81GR1 | 4 | 1a | 200 | 5 | 0.5 | 0.5 | 1500 |
| 80 | G3VM-81HR | 6 | 1a | 1250 | 0.11 | 3.0 | 1.0 | 1500 |
| 100 | G3VM-101HR <i>NEW</i> | 6 | 1a | 1400 | 0.1 | 5.0 | 1.0 | 1500 |
| 200 | G3VM-201G | 4 | 1a | 50 | 40 | 0.5 | 0.2 | 1500 |
| 200 | G3VM-201G1 | 4 | 1a | 200 | 5 | 8.0 | 3.0 | 1500 |
| 200 | G3VM-S5 | 4 | 1a | 200 | 5 | 1.5 | 1.0 | 1500 |
| 200 | G3VM-201H1 | 6 | 1a | 200 | 5 | 1.5 | 1.0 | 1500 |

On-resistance when saturated

Product lineup of MOS FET Relays

SOP (Small Outline Package)

| Load Voltage(V) Max. | Model | Number of terminals | Contact form | Continuous load current (mA) Max. | Typical ON resistance(Ω) | Maximum turn-ON time (ms) | Maximum turn-OFF time (ms) | Dielectric strength between input and output (Vrms) Max. |
|----------------------|------------|---------------------|--------------|-----------------------------------|-----------------------------------|---------------------------|----------------------------|--|
| 200 | G3VM-202J1 | 8 | 2a | 200 | 5 | 1.5 | 1.0 | 1500 |
| 350 | G3VM-351G | 4 | 1a | 110 | 35* | 1.0 | 1.0 | 1500 |
| 350 | G3VM-351G1 | 4 | 1a | 100 | 35 | 5.0 | 3.0 | 1500 |
| 350 | G3VM-351GL | 4 | 1a | 120 | 15 | 1.0 | 1.0 | 1500 |
| 350 | G3VM-351H | 6 | 1a | 110 | 35* | 1.0 | 1.0 | 1500 |
| 350 | G3VM-352J | 8 | 2a | 110 | 35* | 1.0 | 1.0 | 1500 |
| 350 | G3VM-353G | 4 | 1b | 120 | 15 | 1.0 | 3.0 | 1500 |
| 350 | G3VM-353H | 6 | 1b | 120 | 15 | 1.0 | 3.0 | 1500 |
| 350 | G3VM-354J | 8 | 2b | 120 | 15 | 1.0 | 3.0 | 1500 |
| 350 | G3VM-355JR | 8 | 1a1b | 120 | 15 | 1.0 | 3.0 | 1500 |
| 400 | G3VM-401G | 4 | 1a | 120 | 17 | 1.0 | 1.0 | 1500 |
| 400 | G3VM-401H | 6 | 1a | 120 | 17 | 1.0 | 1.0 | 1500 |
| 400 | G3VM-402J | 8 | 2a | 120 | 17 | 1.0 | 1.0 | 1500 |
| 600 | G3VM-601G | 4 | 1a | 90 | 45 | 8.0 | 3.0 | 1500 |

ON resistance when it is saturation

SSOP (Shrink Small Outline Package)

| Load Voltage(V) Max. | Model | Number of terminals | Contact form | Continuous load current (mA) Max. | Typical ON resistance(Ω) | Maximum turn-ON time (ms) | Maximum turn-OFF time (ms) | Dielectric strength between input and output (Vrms) Max. |
|----------------------|-------------|---------------------|--------------|-----------------------------------|-----------------------------------|---------------------------|----------------------------|--|
| 20 | G3VM-21LR | 4 | 1a | 160 | 5 | 0.5 | 0.5 | 1500 |
| 20 | G3VM-21LR1 | 4 | 1a | 450 | 0.8 | 0.5 | 0.5 | 1500 |
| 20 | G3VM-21LR10 | 4 | 1a | 200 | 3 | 0.2 | 0.2 | 1500 |
| 20 | G3VM-21LR11 | 4 | 1a | 900 | 0.18 | 2.0 | 1.0 | 1500 |
| 40 | G3VM-41LR4 | 4 | 1a | 250 | 2 | 0.5 | 0.5 | 1500 |
| 40 | G3VM-41LR5 | 4 | 1a | 300 | 1 | 0.5 | 0.5 | 1500 |
| 40 | G3VM-41LR6 | 4 | 1a | 120 | 10 | 0.5 | 0.5 | 1500 |
| 40 | G3VM-41LR10 | 4 | 1a | 120 | 12 | 0.2 | 0.3 | 1500 |
| 40 | G3VM-41LR11 | 4 | 1a | 140 | 7 | 0.2 | 0.2 | 1500 |
| 60 | G3VM-61LR | 4 | 1a | 400 | 1 | 1.0 | 1.0 | 1500 |
| 80 | G3VM-81LR | 4 | 1a | 120 | 7.5 | 0.25 | 0.2 | 1500 |
| 100 | G3VM-101LR | 4 | 1a | 80 | 8 | 0.3 | 0.3 | 1500 |

USOP (Ultra Small Outline Package)

| Load Voltage(V) Max. | Model | Number of terminals | Contact form | Continuous load current (mA) Max. | Typical ON resistance(Ω) | Maximum turn-ON time (ms) | Maximum turn-OFF time (ms) | Dielectric strength between input and output (Vrms) Max. |
|----------------------|------------------------|---------------------|--------------|-----------------------------------|-----------------------------------|---------------------------|----------------------------|--|
| 20 | G3VM-21PR10 NEW | 4 | 1a | 200 | 3 | 0.2 | 0.2 | 500 |
| 20 | G3VM-21PR11 NEW | 4 | 1a | 900 | 0.18 | 2.0 | 1.0 | 500 |
| 40 | G3VM-41PR12 NEW | 4 | 1a | 100 | 15 | 0.2 | 0.2 | 500 |
| 40 | G3VM-41PR10 NEW | 4 | 1a | 120 | 12 | 0.2 | 0.3 | 500 |
| 40 | G3VM-41PR11 NEW | 4 | 1a | 140 | 7 | 0.2 | 0.2 | 500 |
| 50 | G3VM-51PR NEW | 4 | 1a | 300 | 1 | 0.5 | 0.4 | 500 |
| 60 | G3VM-61PR1 NEW | 4 | 1a | 120 | 10 | 0.2 | 0.2 | 500 |
| 60 | G3VM-61PR NEW | 4 | 1a | 400 | 1 | 0.5 | 0.5 | 500 |

G3VM Model Number Legend

G3VM-

① ② ③ ④ ⑤

| ① Load voltage | ② Contact form | ③ Package type | ④ Additional functions | ⑤ Other information |
|--|---|---|---|--|
| 2: 20V 4: 40V 6: 60V 8: 80V 10: 100V 20: 200V 25: 250V 35: 350V 40: 400V 60: 600V | 1: 1a(SPST-NO) 2: 2a(DPST-NO) 3: 1b(SPST-NC) 4: 2b(DPST-NC) 5: 1a1b(SPST-NO/SPST-NC) 6: Other form | A: DIP 4pin B: DIP 6pin C: DIP 8pin D: SMD 4pin E: SMD 6pin F: SMD 8pin G: SOP 4pin H: SOP 6pin J: SOP 8pin K: SOP 18pin L: SSOP 4pin M: SSOP 6pin N: SSOP 8pin P: USOP 4pin Q: USOP 6pin R: USOP 8pin S: SON 4pin T: SON 6pin U: SON 8pin V: SOP 4pin (special) | L: Current limit M: Multi-functional and basic type N: Multi-function without diode O: Single input LED type P: Special pin arrangement Q: Multifunction with current limiter type R: Low ON-resistance type S: Slow input/slow output T: Multifunction with current limiter and without diode type Y: Dielectric strength between I/O above 2.5 kV type F: High switching speed type | When specifications overlap, serial code is added in the recorded order. |

Note 1: Some products may have a different model number structure.

Note 2: In order to avoid the confusion of I (English letter) and 1 (number), I (English letter) are not used here.

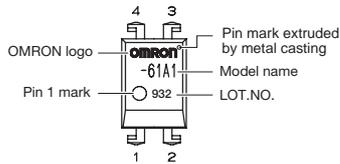
Note 3: For 4-pin SOP models, where the available marking space is insufficient to clearly differentiate model numbers with 6 or more suffix digits, the package type code ③ is omitted.

Product lineup of MOS FET Relays

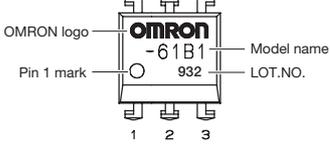
Package

DIP(Dual Inline Package)

DIP4pin

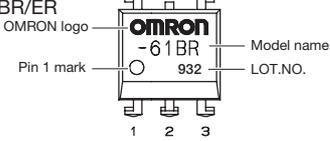


DIP6pin

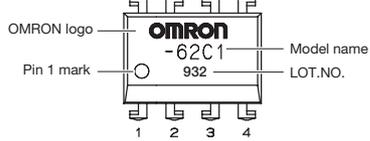


DIP6pin(special)

G3VM-61BR/ER

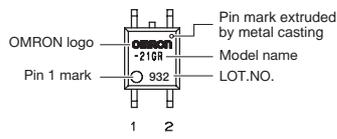


DIP8pin



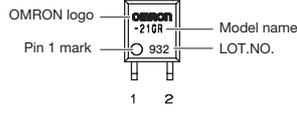
SOP(Small Outline Package)

SOP4pin

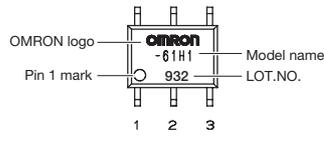


SOP4pin(special)

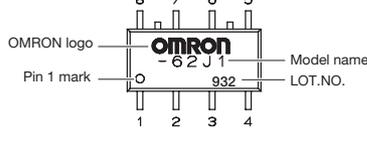
G3VM-61VY



SOP6pin

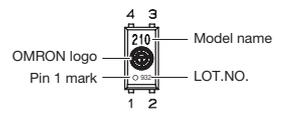


SOP8pin



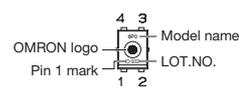
SSOP(Shrink Small Outline Package)

SSOP4pin



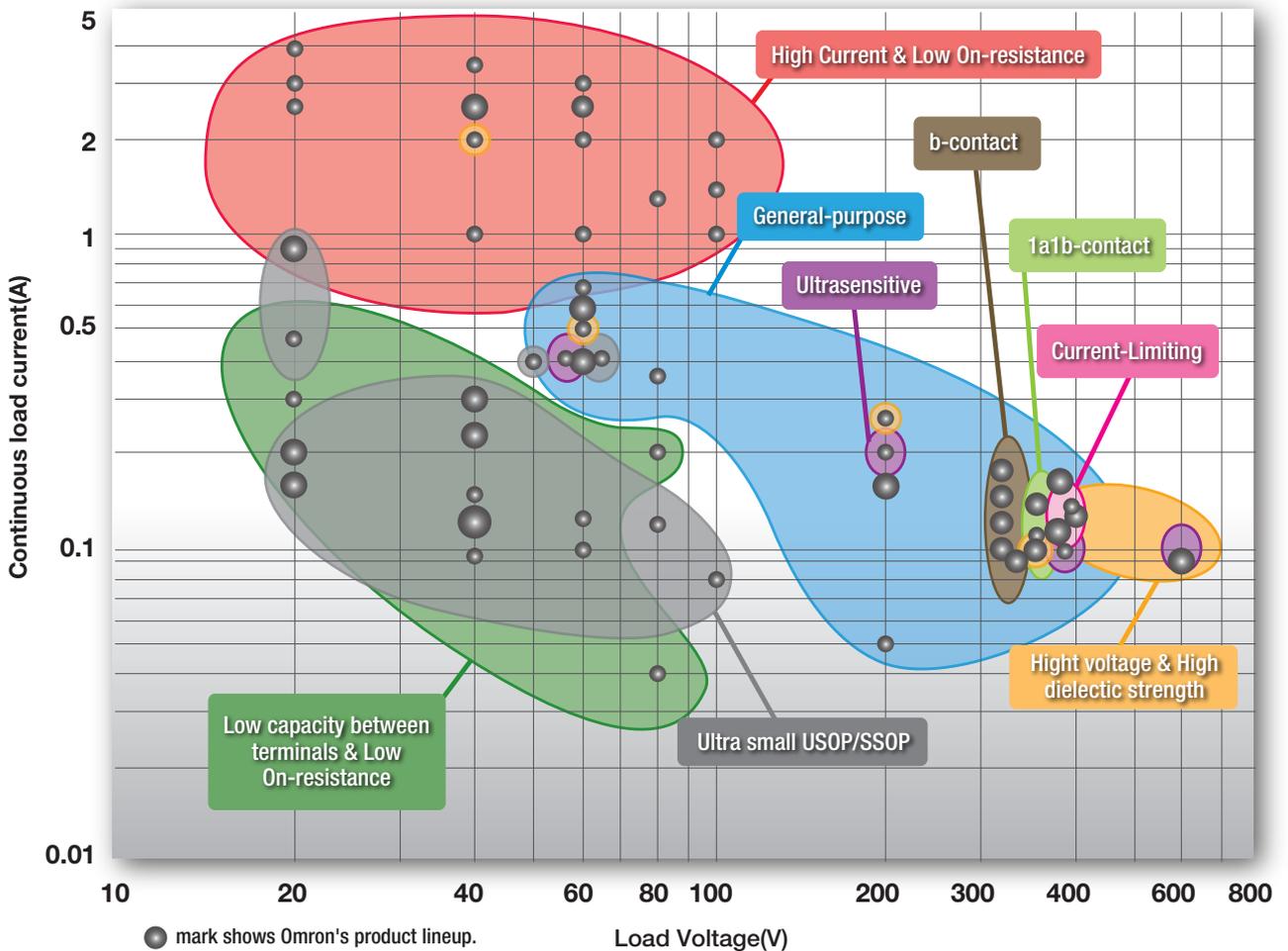
USOP(Ultra Small Outline Package)

USOP4pin



Note: Model symbol of product does not include "G3VM".
 ※ 1PIN mark and the dent at the side opposite to the angle are marks extruded by metal casting.

Product Map by features



Target Applications

Communication Equipment

- Modem
- FAX
- Network equipment
- PBX • Transmission equipment

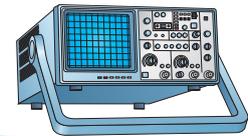


Recommended products

**General -purpose/
b-contact type**
G3VM-61A1/D1
G3VM-351A/D
G3VM-353A/D

Test and Measurement Equipment

- ATE(Automated test equipment)
- Oscilloscope
- Probe/Load card
- IC tester



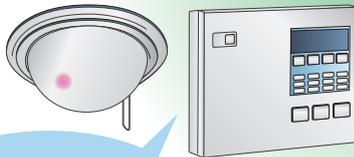
Recommended products

Ultra-small/Low C×R type
G3VM-21GRxx/41GRxx/81GRXX
G3VM-21LRxx/41LRxx/
61LR/81LR/101LR
G3VM-21PRxx/41PRxx/61PRxx



Security Equipment

- Smoke and gas detection equipment
- Household safety panel
- Human detection sensor
- Video intercom



Recommended products

Silent/Ultrasonic type
G3VM-61G1/G2/VY
G3VM-351G/351G1

Electric Meter

- Electric Meter
- Smart Meter
- Gas Meter



Recommended products

High Dielectric Strength type
G3VM-351AY/DY
G3VM-401AY/DY
G3VM-401BY/EY
G3VM-601AY/DY
G3VM-601BY/DY

There are many other usages beyond the above applications.

Medical Equipment

Broadcasting Equipment

Factory Automation Equipment

FA/Amusement Equipment

For more detailed information, please contact your local Omron Representative.

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

OMRON Corporation Electronic and Mechanical Components Company

Contact: www.omron.com/ecb

OMRON ELECTRONIC COMPONENTS EUROPE B.V.
Wegalaan 57, 2132 JD Hoofddorp, THE NETHER LANDS
Tel: (31)23-568-1200/Fax: 31-23-568-1212

OMRON ELECTRONIC COMPONENTS LLC
55 East Commerce Drive, Suite B, IL 60173 U.S.A.
Tel: (1)847-882-2288/Fax: 1-847-882-2192

OMRON ELECTRONIC COMPONENTS PTE LTD.
438A Alexandra Road #05-05/08 Alexandra
Technopark Singapore 119967
TEL:(65)6376-3200/FAX:(65)6376-3211

OMRON ELECTRONIC COMPONENTS TRADING
(SHANGHAI) LTD. SHANGHAI OFFICE
27F Xin Mei Union Square, 999 Pudong South Road,
Pudong New Area, Shanghai, CHINA 200120
Tel: (86)21-6859-5919/Fax: 86-21-6859-5911

OMRON ELECTRONIC COMPONENTS CO., LTD.
307, Teheran Office Bldg. #707-38,
Yeoksam-dong, Gangnam-gu, Seoul, Korea
Tel:(82)2-567-5020/Fax:(82)2-567-5804

Authorized Distributor:

© OMRON Corporation 2011 All Rights Reserved.
In the interest of product improvement,
specifications are subject to change without notice.

Cat. No. Y112-E1-05

Printed in Japan
1012(0207)



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331