# OMRON ELECTRONICS 

See full Datasheet below...

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# G3VM-101BR/ER 

MOS FET Relays

## Compact, General-purpose, Analog-switching MOS FET Relays, with 2-A Switching.

- Continuous load current of 2 A. (Connection C : 4 A)
- Switches minute analog signals.
- Dielectric strength of 2,500 Vrms between I/O.



## RoHS compliant

NEW
Note: The actual product is marked differently from the image shown here.
Terminal Arrangement/Internal Connections


Note: The actual product is marked differently from the image shown here

List of Models

| Package type | Contact form | Terminals | Load voltage (peak value) * | Model | Minimum package quantity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number per stick | Number per tape and reel |
| DIP6 | $\begin{gathered} 1 \mathrm{a} \\ \text { (SPST-NO) } \end{gathered}$ | PCB terminals | 100 V | G3VM-101BR | 50 | --- |
|  |  | Surface-mounting terminals |  | G3VM-101ER |  |  |
|  |  |  |  | G3VM-101ER (TR) | --- | 1,500 |

* The AC peak and DC value are given for the load voltage.

Absolute Maximum Ratings $\left(\mathrm{Ta}=25^{\circ} \mathrm{C}\right)$


Electrical Characteristics $\left(\mathrm{Ta}=25^{\circ} \mathrm{C}\right)$


## Recommended Operating Conditions

Use the G3VM under the following conditions so that the Relay will operate properly.

| Item | Symbol | Minimum | Typical | Maximum | Unit |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Load voltage <br> (AC peak/DC) | VDD | --- | --- | 80 | V |
| Operating LED forward current | IF | 5 | 10 | 25 | mA |
| Continuous load current <br> (AC peak/DC) | Io | --- | -- | 2 | A |
| Operating temperature | Ta | -20 | --- | 65 | ${ }^{\circ} \mathrm{C}$ |

## Engineering Data

LED forward current vs.
Ambient temperature


Continuous load current vs.
On-state voltage


Turn ON, Turn OFF time vs.
LED forward current


Continuous load current vs.
Ambient temperature


On-state resistance vs.
Ambient temperature


Turn ON, Turn OFF time vs.
Ambient temperature


LED forward current vs. LED forward voltage


Trigger LED forward current vs. Ambient temperature


Current leakage vs.
Ambient temperature


- Refer to "Common Precautions" for all G3VM models.


## Appearance

## DIP (Dual Inline Package)

DIP6


Note: The actual product is marked differently from the image shown here.

## Dimensions



## PCB Terminals

Weight: 0.4 g


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Surface-mounting Terminals
Weight: 0.4 g


PCB Dimensions (Bottom View)


Actual Mounting Pad Dimensions (Recommended Value, Top View)


