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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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# G3VM-61BR1/ER1 

MOS FET Relays

## Higher power, 3-A switching with a 60-V

## load voltage, DIP package.

## Low $40 \mathrm{~m} \Omega$ ON Resistance.

- Continuous load current of 3 A. (Connection C: 6 A)
- Switches minute analog signals.
- Dielectric strength of 2,500 Vrms between I/O.


RoHS compliant

## Application Examples

- Communication equipment
- Test \& Measurement equipment
- Security equipment
- Factory Automation equipment
- Power circuit


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 | 60 V | G3VM-61BR1 | 50 | --- |
|  |  | Surface-mounting terminals |  | G3VM-61ER1 |  |  |
|  |  |  |  | G3VM-61ER1 (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 | --- | --- | 48 | V |
| Operating LED forward current | IF | 5 | 10 | 25 | mA |
| Continuous load current <br> (AC peak/DC) | Io | --- | --- | 3 | 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


## Safety Precautions

- 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


Surface-mounting Terminals
PCB Dimensions (Bottom View)


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

Actual Mounting Pad Dimensions

(Recommended Value, Top View)


