

# G3VM-□AY□/□DY□

MOS FET Relays Small DIP4 package with High dielectric strength type

## Small DIP4 package with Dielectric Strength of 5,000 VAC between I/O

- Load voltage 40V/60V/200V/350V/400V/600V
- Standard type: Trigger LED forward current 3mA (max.)
- High sensitive type: Trigger LED forward current 2mA (max.)



**NEW**

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

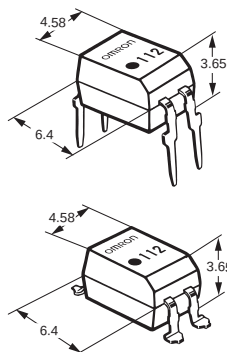
RoHS Compliant

Refer to "Common Precautions".

### Application Examples

- Electrical power unit
- Security equipment
- Medical equipment
- Test & measurement equipment
- Industrial equipment

### Package (Unit : mm, Average)



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

### Model Number Legend

G3VM-□□□□□  
1 2 3 4 5

#### 1. Load Voltage

4: 40V  
6: 60V  
20: 200V  
35: 350V  
40: 400V  
60: 600V

#### 2. Contact form

1: 1a (SPST-NO)

#### 3. Package type

A: DIP4 pin PCB terminals  
D: DIP4 pin Surface-mounting Terminals

#### 4. Additional functions

Y: Dielectric strength between I/O above 2,500V type

#### 5. Other informations

When specifications overlap, serial code is added in the recorded order.

### Ordering Information

#### Standard type

| Package type | Contact form | Load voltage (peak value) * | Continuous load current (peak value) * | Packing/Tube  |                            |                          | Packing/Tape & reel        |                          |
|--------------|--------------|-----------------------------|----------------------------------------|---------------|----------------------------|--------------------------|----------------------------|--------------------------|
|              |              |                             |                                        | Model         |                            | Minimum package quantity | Model                      | Minimum package quantity |
|              |              |                             |                                        | PCB terminals | Surface-mounting Terminals |                          | Surface-mounting Terminals |                          |
| DIP4         | 1a           | 40V                         | 2000mA                                 | G3VM-41AY1    | G3VM-41DY1                 | 100 pcs.                 | G3VM-41DY1(TR05)           | 500 pcs.                 |
|              |              | 60V                         | 500mA                                  | G3VM-61AY1    | G3VM-61DY1                 |                          | G3VM-61DY1(TR05)           |                          |
|              |              | 200V                        | 250mA                                  | G3VM-201AY1   | G3VM-201DY1                |                          | G3VM-201DY1(TR05)          |                          |
|              |              | 350V                        | 100mA                                  | G3VM-351AY1   | G3VM-351DY1                |                          | G3VM-351DY1(TR05)          |                          |
|              |              | 400V                        | 120mA                                  | G3VM-401AY1   | G3VM-401DY1                |                          | G3VM-401DY1(TR05)          |                          |
|              |              | 600V                        | 90mA                                   | G3VM-601AY1   | G3VM-601DY1                |                          | G3VM-601DY1(TR05)          |                          |

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

#### High sensitive type

| Package type | Contact form | Load voltage (peak value) * | Continuous load current (peak value) * | Packing/Tube  |                            |                          | Packing/Tape & reel        |                          |
|--------------|--------------|-----------------------------|----------------------------------------|---------------|----------------------------|--------------------------|----------------------------|--------------------------|
|              |              |                             |                                        | Model         |                            | Minimum package quantity | Model                      | Minimum package quantity |
|              |              |                             |                                        | PCB terminals | Surface-mounting Terminals |                          | Surface-mounting Terminals |                          |
| DIP4         | 1a           | 40V                         | 2000mA                                 | G3VM-41AY     | G3VM-41DY                  | 100 pcs.                 | G3VM-41DY(TR)              | 1,500 pcs.               |
|              |              | 60V                         | 500mA                                  | G3VM-61AY     | G3VM-61DY                  |                          | G3VM-61DY(TR)              |                          |
|              |              | 200V                        | 250mA                                  | G3VM-201AY    | G3VM-201DY                 |                          | G3VM-201DY(TR)             |                          |
|              |              | 350V                        | 100mA                                  | G3VM-351AY    | G3VM-351DY                 |                          | G3VM-351DY(TR)             |                          |
|              |              | 400V                        | 120mA                                  | G3VM-401AY    | G3VM-401DY                 |                          | G3VM-401DY(TR)             |                          |
|              |              | 600V                        | 90mA                                   | G3VM-601AY    | G3VM-601DY                 |                          | G3VM-601DY(TR)             |                          |

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

## ■Absolute Maximum Ratings (Ta = 25°C)

●Standard type, High sensitive type

| Item                                             |                                      | Symbol              | G3VM-41AY1<br>G3VM-41DY1<br>G3VM-41AY<br>G3VM-41DY | G3VM-61AY1<br>G3VM-61DY1<br>G3VM-61AY<br>G3VM-61DY | G3VM-201AY1<br>G3VM-201DY1<br>G3VM-201AY<br>G3VM-201DY | G3VM-351AY1<br>G3VM-351DY1<br>G3VM-351AY<br>G3VM-351DY | G3VM-401AY1<br>G3VM-401DY1<br>G3VM-401AY<br>G3VM-401DY | G3VM-601AY1<br>G3VM-601DY1<br>G3VM-601AY<br>G3VM-601DY | Unit             | Measurement conditions        |
|--------------------------------------------------|--------------------------------------|---------------------|----------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------|-------------------------------|
| Input                                            | LED forward current                  | IF                  | 30                                                 |                                                    |                                                        |                                                        |                                                        |                                                        | mA               |                               |
|                                                  | Repetitive peak LED forward current  | IFP                 | 1                                                  |                                                    |                                                        |                                                        |                                                        |                                                        | A                | 100 μs pulses, 100 pps        |
|                                                  | LED forward current reduction rate   | ΔIF/°C              | -0.3                                               |                                                    |                                                        |                                                        |                                                        |                                                        | mA/°C            | Ta≥25°C                       |
|                                                  | LED reverse voltage                  | VR                  | 5                                                  |                                                    |                                                        |                                                        |                                                        |                                                        | V                |                               |
|                                                  | Connection temperature               | TJ                  | 125                                                |                                                    |                                                        |                                                        |                                                        |                                                        | °C               |                               |
| Output                                           | Load voltage (AC peak/DC)            | V <sub>OFF</sub>    | 40                                                 | 60                                                 | 200                                                    | 350                                                    | 400                                                    | 600                                                    | V                |                               |
|                                                  | Continuous load current (AC peak/DC) | I <sub>O</sub>      | 2,000                                              | 500                                                | 250                                                    | 100                                                    | 120                                                    | 90                                                     | mA               |                               |
|                                                  | ON current reduction rate            | ΔI <sub>O</sub> /°C | -20                                                | -5                                                 | -2.5                                                   | -1                                                     | -1.2                                                   | -0.9                                                   | mA/°C            | Ta≥25°C                       |
|                                                  | Pulse ON current                     | I <sub>OP</sub>     | 6                                                  | 1.5                                                | 0.75                                                   | 0.3                                                    | 0.36                                                   | 0.27                                                   | A                | t=100ms, Duty=1/10            |
|                                                  | Connection temperature               | TJ                  | 125                                                |                                                    |                                                        |                                                        |                                                        |                                                        | °C               |                               |
| Dielectric strength between I/O<br>(See note 1.) |                                      | V <sub>I-O</sub>    | 5,000                                              |                                                    |                                                        |                                                        |                                                        |                                                        | V <sub>rms</sub> | AC for 1 min                  |
| Ambient operating temperature                    |                                      | Ta                  | -40~+85                                            |                                                    |                                                        |                                                        |                                                        |                                                        | °C               | With no icing or condensation |
| Ambient storage temperature                      |                                      | T <sub>stg</sub>    | -55~+125                                           |                                                    |                                                        |                                                        |                                                        |                                                        | °C               |                               |
| Soldering temperature                            |                                      | —                   | 260                                                |                                                    |                                                        |                                                        |                                                        |                                                        | °C               | 10s                           |

**Note: 1.** The dielectric strength between the input and output was checked by applying voltage between all pins as a group on the LED side and all pins as a group on the light-receiving side.

DIP

G3VM□AY□/□DY□

Electrical Characteristics (Ta = 25°C)

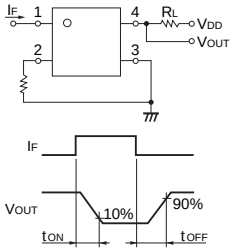
Standard type

| Item                                        |                                        |                   | Symbol  |                 | G3VM-41AY1<br>G3VM-41DY1 | G3VM-61AY1<br>G3VM-61DY1 | G3VM-201AY1<br>G3VM-201DY1 | G3VM-351AY1<br>G3VM-351DY1 | G3VM-401AY1<br>G3VM-401DY1 | G3VM-601AY1<br>G3VM-601DY1 | Unit                                                                                                                                                                                                                                                             | Measurement conditions                                                                          |
|---------------------------------------------|----------------------------------------|-------------------|---------|-----------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Input                                       | LED forward voltage                    | V <sub>F</sub>    | Minimum | 1.1             |                          |                          |                            |                            |                            |                            | V                                                                                                                                                                                                                                                                | I <sub>F</sub> =10mA                                                                            |
|                                             |                                        |                   | Typical | 1.27            |                          |                          |                            |                            |                            |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |
|                                             |                                        |                   | Maximum | 1.4             |                          |                          |                            |                            |                            |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |
|                                             | Reverse current                        | I <sub>R</sub>    | Maximum | 10              |                          |                          |                            |                            |                            |                            | μA                                                                                                                                                                                                                                                               | V <sub>R</sub> =5V                                                                              |
|                                             | Capacity between terminals             | C <sub>T</sub>    | Typical | 50              |                          |                          |                            |                            |                            |                            | pF                                                                                                                                                                                                                                                               | V=0, f=1MHz                                                                                     |
|                                             | Trigger LED forward current            | I <sub>FT</sub>   | Minimum | 0.5             | 0.6                      |                          |                            |                            |                            | 0.5                        | mA                                                                                                                                                                                                                                                               | G3VM-41AY1/DY1 : I <sub>o</sub> =1A<br>Others : I <sub>o</sub> =Continuous load current ratings |
| Maximum                                     |                                        |                   | 3       |                 |                          |                          |                            |                            |                            |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |
| Release LED forward current                 | I <sub>FC</sub>                        | Minimum           | 0.1     |                 |                          |                          |                            |                            |                            | mA                         | I <sub>OFF</sub> =10μA                                                                                                                                                                                                                                           |                                                                                                 |
| Output                                      | Maximum resistance with output ON      | R <sub>ON</sub>   | Typical | 0.09(0.06)      | 0.6                      | 5                        | 35(25)                     | 22(17)                     | 45(30)                     | Ω                          | I <sub>F</sub> =5mA, I <sub>o</sub> =Continuous load current ratings (value at t<1s)                                                                                                                                                                             |                                                                                                 |
|                                             |                                        |                   | Maximum | 0.15(0.10)      | 2                        | 8                        | 50(35)                     | 35(28)                     | 60(40)                     |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |
|                                             | Current leakage when the relay is open | I <sub>LEAK</sub> | Maximum | 1               |                          |                          |                            |                            |                            |                            | μA                                                                                                                                                                                                                                                               | V <sub>OFF</sub> =Load voltage ratings                                                          |
|                                             | Capacity between terminals             | C <sub>OFF</sub>  | Typical | 300             | 130                      | 90                       | 30                         | 80                         | 75                         | pF                         | V=0, f=1MHz                                                                                                                                                                                                                                                      |                                                                                                 |
| Capacity between I/O terminals              |                                        | C <sub>I-O</sub>  | Typical | 0.8             |                          |                          |                            |                            |                            |                            | pF                                                                                                                                                                                                                                                               | f=1MHz, V <sub>S</sub> =0V                                                                      |
| Insulation resistance between I/O terminals |                                        | R <sub>I-O</sub>  | Minimum | 1000            |                          |                          |                            |                            |                            |                            | MΩ                                                                                                                                                                                                                                                               | V <sub>I-O</sub> =500VDC, R <sub>oH</sub> ≤60%                                                  |
|                                             |                                        |                   | Typical | 10 <sup>8</sup> |                          |                          |                            |                            |                            |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |
| Turn-ON time                                | t <sub>ON</sub>                        | Typical           | 2.8     | 1               |                          |                          | 0.3                        | 0.6                        | 0.5                        | ms                         | G3VM-41AY1/DY1 : R <sub>L</sub> =200Ω, I <sub>F</sub> =10mA, V <sub>DD</sub> =20V<br>G3VM-601AY1/DY1 : R <sub>L</sub> =200Ω, I <sub>F</sub> =5mA, V <sub>DD</sub> =10V<br>Others : R <sub>L</sub> =200Ω, I <sub>F</sub> =5mA, V <sub>DD</sub> =20V (See note 2.) |                                                                                                 |
|                                             |                                        | Maximum           | 5       | 3               |                          |                          | 2                          |                            |                            |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |
| Turn-OFF time                               | t <sub>OFF</sub>                       | Typical           | 0.3     | 0.2             | 0.1                      |                          |                            | 0.2                        |                            |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |
|                                             |                                        | Maximum           | 1       |                 |                          |                          |                            |                            |                            |                            |                                                                                                                                                                                                                                                                  |                                                                                                 |

High sensitive type

| Item                                        |                                        |                   | Symbol  |                 | G3VM-41AY<br>G3VM-41DY | G3VM-61AY<br>G3VM-61DY | G3VM-201AY<br>G3VM-201DY | G3VM-351AY<br>G3VM-351DY | G3VM-401AY<br>G3VM-401DY | G3VM-601AY<br>G3VM-601DY | Unit                                                                                    | Measurement conditions                                                                                                                                                             |
|---------------------------------------------|----------------------------------------|-------------------|---------|-----------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input                                       | LED forward voltage                    | V <sub>F</sub>    | Minimum | 1.45            |                        |                        |                          |                          |                          |                          | V                                                                                       | I <sub>F</sub> =10mA                                                                                                                                                               |
|                                             |                                        |                   | Typical | 1.63            |                        |                        |                          |                          |                          |                          |                                                                                         |                                                                                                                                                                                    |
|                                             |                                        |                   | Maximum | 1.75            |                        |                        |                          |                          |                          |                          |                                                                                         |                                                                                                                                                                                    |
|                                             | Reverse current                        | I <sub>R</sub>    | Maximum | 10              |                        |                        |                          |                          |                          |                          | μA                                                                                      | V <sub>R</sub> =5V                                                                                                                                                                 |
|                                             | Capacity between terminals             | C <sub>T</sub>    | Typical | 40              |                        |                        |                          |                          |                          |                          | pF                                                                                      | V=0, f=1MHz                                                                                                                                                                        |
|                                             | Trigger LED forward current            | I <sub>FT</sub>   | Minimum | 0.3             |                        |                        |                          |                          |                          |                          | mA                                                                                      | G3VM-41AY/DY : I <sub>o</sub> =1A<br>Others : I <sub>o</sub> =Continuous load current ratings                                                                                      |
| Maximum                                     |                                        |                   | 2       |                 |                        |                        |                          |                          |                          |                          |                                                                                         |                                                                                                                                                                                    |
|                                             | Release LED forward current            | I <sub>FC</sub>   | Minimum | 0.1             |                        |                        |                          |                          |                          |                          | mA                                                                                      | I <sub>OFF</sub> =10μA                                                                                                                                                             |
| Output                                      | Maximum resistance with output ON      | R <sub>ON</sub>   | Typical | 0.09(0.06)      | 0.6                    | 5                      | 35(25)                   | 22(17)                   | 45(30)                   | Ω                        | I <sub>F</sub> =5mA,<br>I <sub>o</sub> =Continuous load current ratings (value at t<1s) |                                                                                                                                                                                    |
|                                             |                                        |                   | Maximum | 0.15(0.10)      | 2                      | 8                      | 50(35)                   | 35(28)                   | 60(40)                   |                          |                                                                                         |                                                                                                                                                                                    |
|                                             | Current leakage when the relay is open | I <sub>LEAK</sub> | Maximum | 1               |                        |                        |                          |                          |                          |                          | μA                                                                                      | V <sub>OFF</sub> =Load voltage ratings                                                                                                                                             |
|                                             | Capacity between terminals             | C <sub>OFF</sub>  | Typical | 300             | 130                    | 90                     | 30                       | 80                       | 75                       | pF                       | V=0, f=1MHz                                                                             |                                                                                                                                                                                    |
| Capacity between I/O terminals              |                                        | C <sub>I-O</sub>  | Typical | 0.8             |                        |                        |                          |                          |                          |                          | pF                                                                                      | f=1MHz, V <sub>S</sub> =0V                                                                                                                                                         |
| Insulation resistance between I/O terminals |                                        | R <sub>I-O</sub>  | Minimum | 1000            |                        |                        |                          |                          |                          |                          | MΩ                                                                                      | V <sub>I-O</sub> =500VDC, R <sub>oH</sub> ≤60%                                                                                                                                     |
|                                             |                                        |                   | Typical | 10 <sup>8</sup> |                        |                        |                          |                          |                          |                          |                                                                                         |                                                                                                                                                                                    |
| Turn-ON time                                |                                        | t <sub>ON</sub>   | Typical | 2               | 0.5                    | 0.1                    | 0.2                      |                          |                          |                          | ms                                                                                      | G3VM-601AY/DY :<br>R <sub>L</sub> =200Ω, I <sub>F</sub> =5mA, V <sub>DD</sub> =10V<br>Others :<br>R <sub>L</sub> =200Ω, I <sub>F</sub> =5mA, V <sub>DD</sub> =20V<br>(See note 2.) |
|                                             |                                        |                   | Maximum | 5               | 1                      |                        |                          |                          |                          |                          |                                                                                         |                                                                                                                                                                                    |
| Turn-OFF time                               |                                        | t <sub>OFF</sub>  | Typical | 0.3             | 0.2                    |                        |                          |                          |                          |                          |                                                                                         |                                                                                                                                                                                    |
|                                             |                                        |                   | Maximum | 1               |                        |                        |                          |                          |                          |                          |                                                                                         |                                                                                                                                                                                    |

Note: 2. Turn-ON and Turn-OFF Times



## ■Recommended Operating Conditions

For usage with high reliability, Recommended Operation Conditions is a measure that takes into account the derating of Absolute Maximum Ratings and Electrical Characteristics.

Each item on this list is an independent condition, so it is not simultaneously satisfy several conditions.

### ●Standard type

| Item                                 |                 |         | Symbol |     | G3VM-41AY1<br>G3VM-41DY1 | G3VM-61AY1<br>G3VM-61DY1 | G3VM-201AY1<br>G3VM-201DY1 | G3VM-351AY1<br>G3VM-351DY1 | G3VM-401AY1<br>G3VM-401DY1 | G3VM-601AY1<br>G3VM-601DY1 | Unit |
|--------------------------------------|-----------------|---------|--------|-----|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------|
| Load voltage (AC peak/DC)            | V <sub>DD</sub> | Maximum | 32     | 48  | 160                      | 280                      | 320                        | 480                        |                            |                            | V    |
| Operating LED forward current        | I <sub>F</sub>  | Minimum | 5      |     |                          |                          |                            |                            |                            |                            | mA   |
|                                      |                 | Typical | 7.5    |     |                          |                          |                            |                            |                            |                            |      |
|                                      |                 | Maximum | 25     |     |                          |                          |                            |                            |                            |                            |      |
| Continuous load current (AC peak/DC) | I <sub>O</sub>  | Maximum | 2000   | 500 | 250                      | 100                      | 120                        | 90                         |                            |                            |      |
| Ambient operating temperature        | T <sub>a</sub>  | Minimum | -20    |     |                          |                          |                            |                            |                            |                            | °C   |
|                                      |                 | Maximum | 65     |     |                          |                          |                            |                            |                            |                            |      |

### ●High sensitive type

| Item                                 | Symbol          |         | G3VM-41AY<br>G3VM-41DY | G3VM-61AY<br>G3VM-61DY | G3VM-201AY<br>G3VM-201DY | G3VM-351AY<br>G3VM-351DY | G3VM-401AY<br>G3VM-401DY | G3VM-601AY<br>G3VM-601DY | Unit |
|--------------------------------------|-----------------|---------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| Load voltage (AC peak/DC)            | V <sub>DD</sub> | Maximum | 32                     | 48                     | 160                      | 280                      | 320                      | 480                      | V    |
| Operating LED forward current        | I <sub>F</sub>  | Minimum | 3                      |                        |                          |                          |                          |                          | mA   |
|                                      |                 | Typical | 5                      |                        |                          |                          |                          |                          |      |
|                                      |                 | Maximum | 15                     |                        | 20                       |                          |                          |                          |      |
| Continuous load current (AC peak/DC) | I <sub>O</sub>  | Maximum | 2000                   | 500                    | 250                      | 100                      | 120                      | 90                       |      |
| Ambient operating temperature        | T <sub>a</sub>  | Minimum | -20                    |                        |                          |                          |                          |                          | °C   |
|                                      |                 | Maximum | 65                     |                        |                          |                          |                          |                          |      |

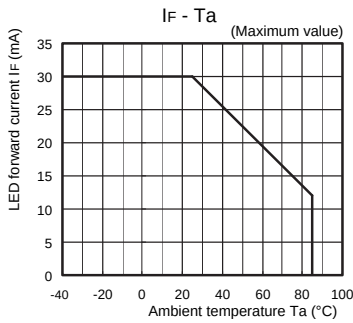
## ■Spacing and Insulation

### ●Standard type and High sensitive type

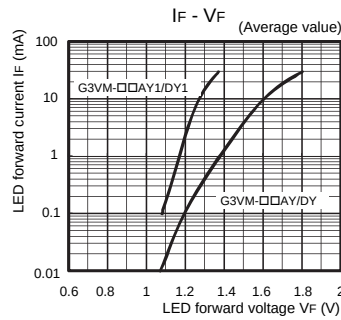
| Item                         |         | Standard | Unit |
|------------------------------|---------|----------|------|
| Creepage distances           | Minimum | 7.0      | mm   |
| Clearance distances          | Minimum | 7.0      |      |
| Internal isolation thickness | Minimum | 0.4      |      |

## Engineering Data

### LED forward current vs. Ambient temperature

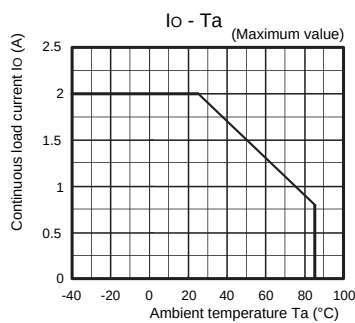


### LED forward current vs. LED forward voltage



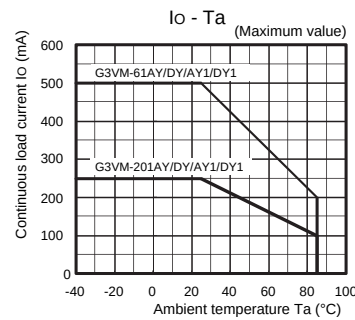
### Continuous load current vs. Ambient temperature

G3VM-41AY/DY/AY1/DY1



G3VM-61AY/DY/AY1/DY1

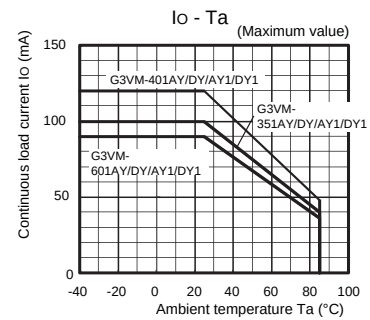
G3VM-201AY/DY/AY1/DY1



G3VM-351AY/DY/AY1/DY1

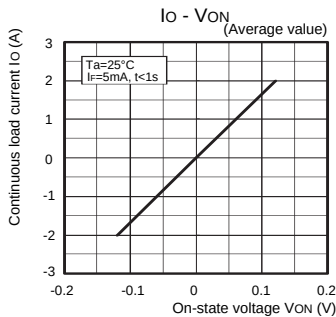
G3VM-401AY/DY/AY1/DY1

G3VM-601AY/DY/AY1/DY1



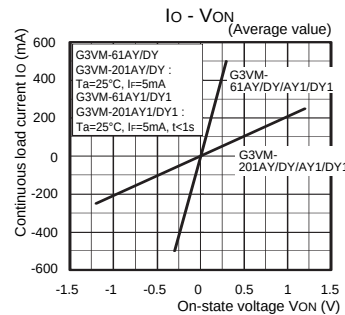
### Continuous load current vs. On-state voltage

G3VM-41AY/DY/AY1/DY1



G3VM-61AY/DY/AY1/DY1

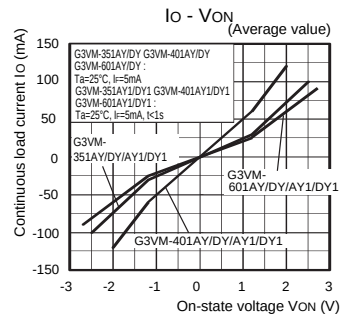
G3VM-201AY/DY/AY1/DY1



G3VM-351AY/DY/AY1/DY1

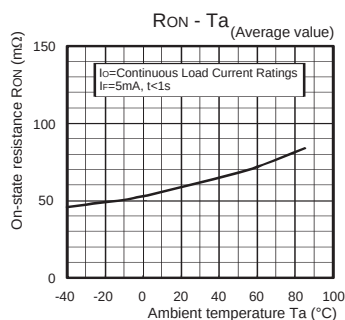
G3VM-401AY/DY/AY1/DY1

G3VM-601AY/DY/AY1/DY1



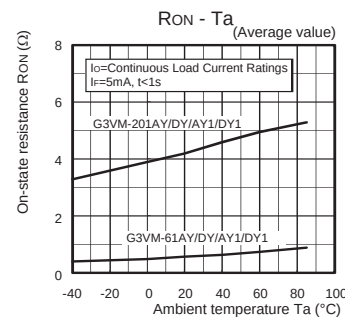
### On-state resistance vs. Ambient temperature

G3VM-41AY/DY/AY1/DY1



G3VM-61AY/DY/AY1/DY1

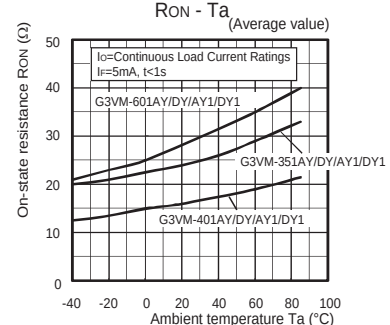
G3VM-201AY/DY/AY1/DY1



G3VM-351AY/DY/AY1/DY1

G3VM-401AY/DY/AY1/DY1

G3VM-601AY/DY/AY1/DY1



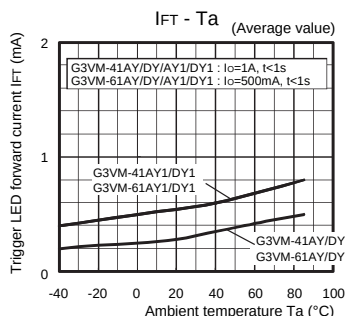
## Engineering Data

### Trigger LED forward current vs.

#### Ambient temperature

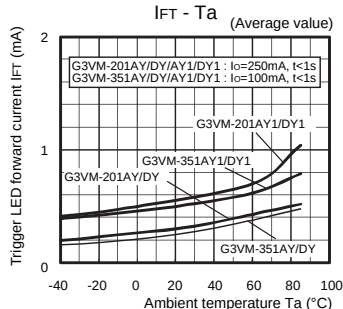
G3VM-41AY/DY/AY1/DY1

G3VM-61AY/DY/AY1/DY1



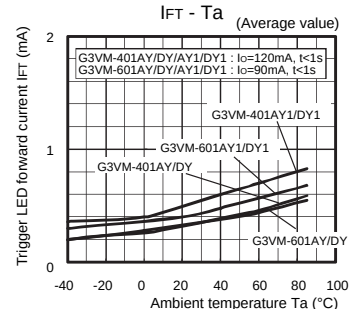
G3VM-201AY/DY/AY1/DY1

G3VM-351AY/DY/AY1/DY1



G3VM-401AY/DY/AY1/DY1

G3VM-601AY/DY/AY1/DY1

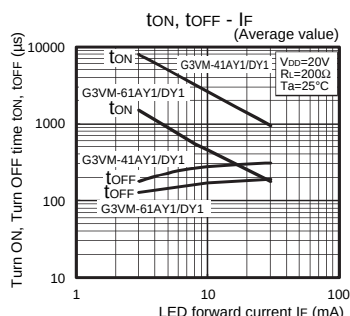


### Turn ON, Turn OFF time vs.

#### LED forward current

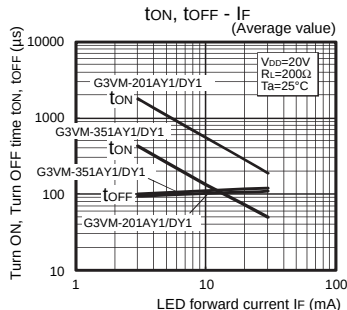
G3VM-41AY1/DY1

G3VM-61AY1/DY1



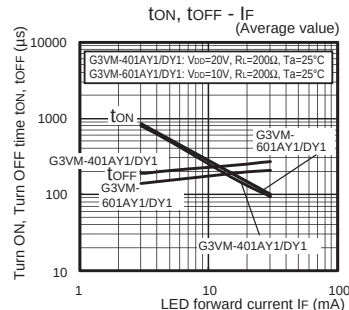
G3VM-201AY1/DY1

G3VM-351AY1/DY1



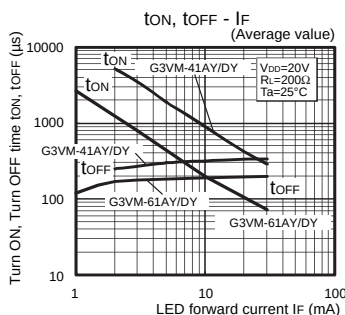
G3VM-401AY1/DY1

G3VM-601AY1/DY1



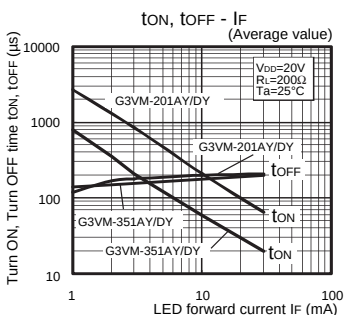
G3VM-41AY/DY

G3VM-61AY/DY



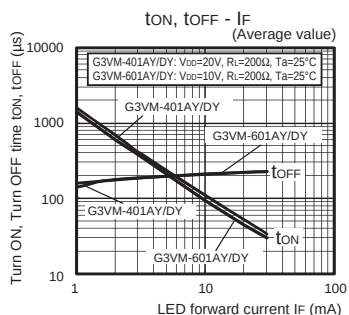
G3VM-201AY/DY

G3VM-351AY/DY



G3VM-401AY/DY

G3VM-601AY/DY

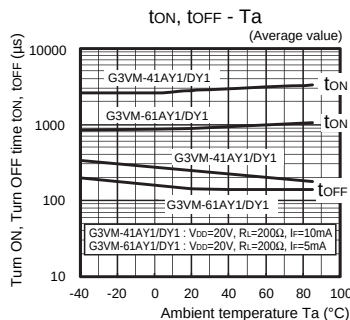


### Turn ON, Turn OFF time vs.

#### Ambient temperature

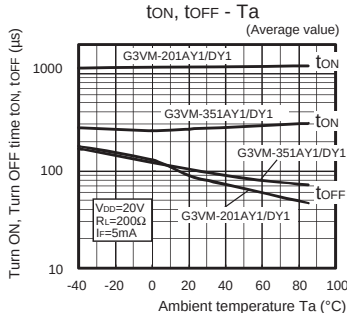
G3VM-41AY1/DY1

G3VM-61AY1/DY1



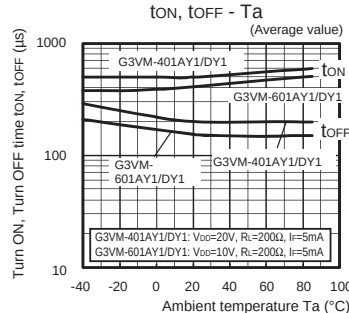
G3VM-201AY1/DY1

G3VM-351AY1/DY1



G3VM-401AY1/DY1

G3VM-601AY1/DY1

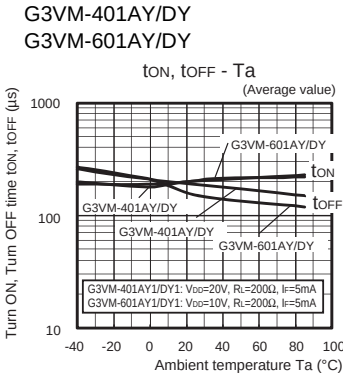
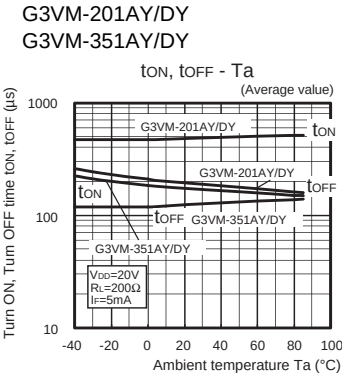
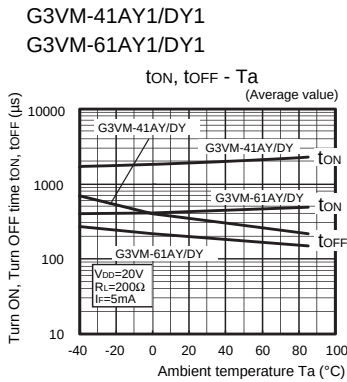


DIP

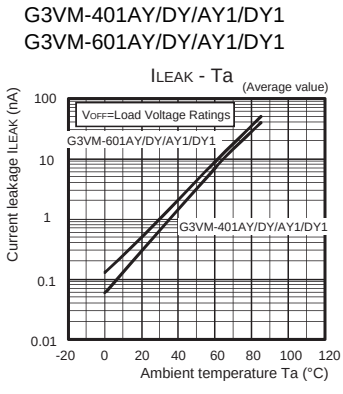
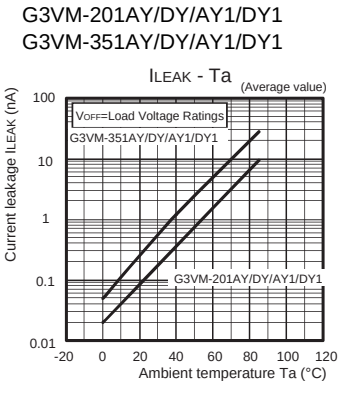
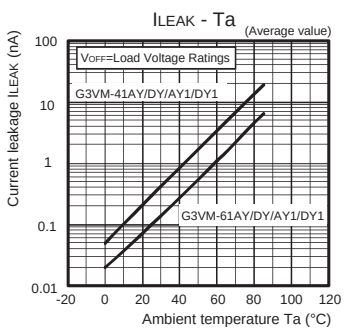
G3VM-□AY□/□DY□

Engineering Data

Turn ON, Turn OFF time vs. Ambient temperature



Current leakage vs. Ambient temperature

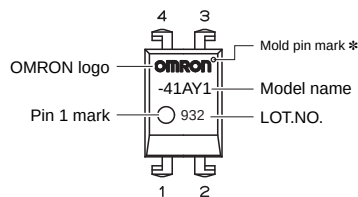


## ■Apperance/Terminal Arrangement/Internal Connections

### ■Apperance

#### DIP (Dual Inline Package)

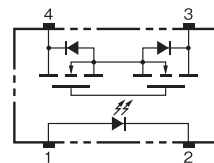
DIP4



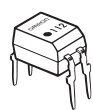
Note: The actual product is marked differently from the image shown here.

\* The indentation in the corner diagonally opposite from the pin 1 mark is from a pin on the mold.

### ■ Terminal Arrangement/Internal Connections

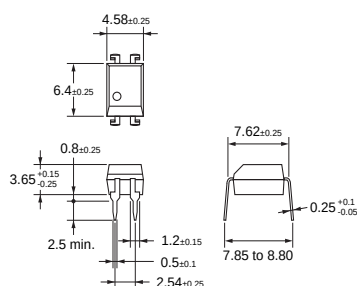


## ■Dimensions (Unit: mm)



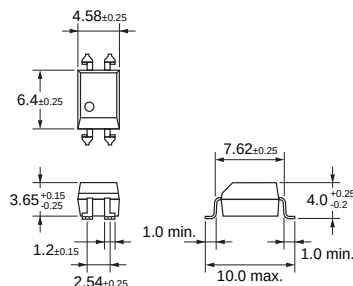
#### PCB Terminals

Weight: 0.25 g

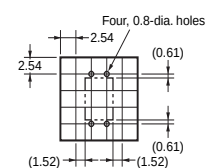


#### Surface-mounting Terminals

Weight: 0.25 g

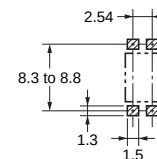


#### PCB Dimensions (BOTTOM VIEW)



#### Actual Mounting Pad Dimensions

(Recommended Value, TOP VIEW)



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

## ■Approved Standards

UL recognized

### ●Standard type and High sensitive type

| Approved Standards | Contact form    | File No. |
|--------------------|-----------------|----------|
| UL recognized      | 1a<br>(SPST-NO) | E80555   |

## ■Safety Precautions

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

• 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.

OMRON Corporation

Electronic and Mechanical Components Company

Contact: [www.omron.com/ecb](http://www.omron.com/ecb)

Cat. No. K275-E1-02  
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