

# MASSUSE SOLID STATE RELAY

## FEATURE

- Output Voltage Up To 300VDC&600VDC

## DC to DC Solid State Relay

MG1005DD

MG2010DD

MG2075DD

MG1010DD

MG2025DD

MG1025DD

MG1040DD

MG2050DD

MG2040DD

## SPECIFICATION

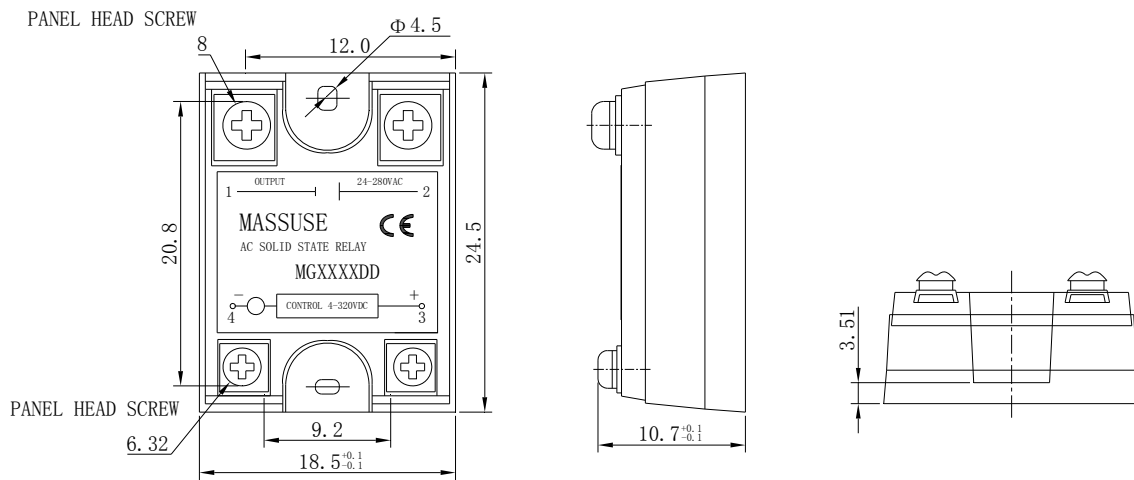
| Model No. | Control Voltage Range | Must Turn Off Voltage | Input Impedance | Max. Load Current | Load Voltage Range | Min Blocking Voltage | Max Off-State Leakage | Frequency Range | Max 1-Cycle Peak Surge |
|-----------|-----------------------|-----------------------|-----------------|-------------------|--------------------|----------------------|-----------------------|-----------------|------------------------|
| MG1005DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 5A                | 5 - 120VDC         | 140VDC               | Less 3mA              | 47 - 70Hz       | 6A                     |
| MG1010DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 10A               | 5 - 120VDC         | 140VDC               | Less 5mA              | 47 - 70Hz       | 15A                    |
| MG1025DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 25A               | 5 - 120VDC         | 140VDC               | Less 7mA              | 47 - 70Hz       | 35A                    |
| MG1040DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 40A               | 5 - 120VDC         | 140VDC               | Less 7mA              | 47 - 70Hz       | 50A                    |
| MG2010DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 10A               | 5 - 220VDC         | 240VDC               | Less 7mA              | 47 - 70HZ       | 15A                    |
| MG2025DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 25A               | 5 - 220VDC         | 240VDC               | Less 7mA              | 47 - 70HZ       | 35A                    |
| MG2040DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 40A               | 5 - 220VDC         | 240VDC               | Less 7mA              | 47 - 70HZ       | 50A                    |
| MG2050DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 50A               | 5 - 220VDC         | 240VDC               | Less 7mA              | 47 - 70HZ       | 60A                    |
| MG2075DD  | 3 to 32VDC            | Max. 1.0VDC           | 1.5Kohm         | 75A               | 5 - 220VDC         | 240VDC               | Less 7mA              | 47 - 70HZ       | 85A                    |

| Model No.  | Max Off State dv / dt | Max On-State Voltage Drop | Isolate Impedance   | Dielectric Strength Input-Output | Dielectric Strength Input, Output - case | Turn On Time | Turn Off Time    | Capacitance In-Out | Weight (g) |
|--|-----------------------|---------------------------|---------------------|----------------------------------|--|--------------|------------------|--------------------|------------|
| MG1005DD   | 200 V / $\mu$ SEC     | 2.0Vrms                   | 10 <sup>9</sup> ohm | 4000VACrms                       | 2500 VACrms                              | Less 2msec   | Less 1/2AC cycle | Less 15 pf         | 95 g       |
| MG1010DD   | 200 V / $\mu$ SEC     | 2.0Vrms                   | 10 <sup>9</sup> ohm | 4000VACrms                       | 2500 VACrms                              | Less 2msec   | Less 1/2AC cycle | Less 15 pf         | 95 g       |
| MG1025DD<br>MG1040DD<br>MG2010DD<br>MG2025DD<br>MG2040DD<br>MG2050DD<br>MG2075DD | 200 V / $\mu$ SEC     | 2.0Vrms                   | 10 <sup>9</sup> ohm | 4000VACrms                       | 2500 VACrms                              | Less 2msec   | Less 1/2AC cycle | Less 15 pf         | 100 g      |

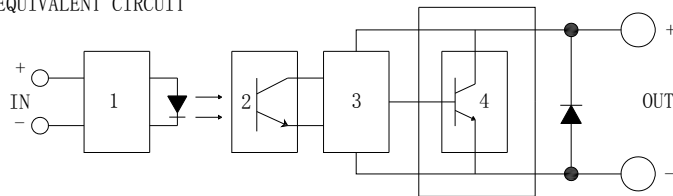
# MASSUSE SOLID STATE RELAY

MG series

Dimensions(unit: mm)



EQUIVALENT CIRCUIT



1. INPUT CIRCUIT
2. PHOTO DETECTOR
3. AMPLIFIER
4. PROTECTED CIRCUIT