

SD Series Single-phase DC output SSR



- Feature
- Load current:7-80A
  - DC control: 4-32VDC
  - Load voltage: 50VDC,100VDC,400VDC,1200VDC
  - LED indicator for power on
  - Dielectric strength 4000VACrms
  - CE\RoHS

Description

SD series solid state relays are panel mounted and DC output. Input voltage range: 4-32VDC. There is opto-electric isolation between the input and output and the dielectric strength is 4000VAC

Model Coding

|           |                                                                                                       |                                         |                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------|
| <b>SD</b> | <b>25</b>                                                                                             | <b>D</b>                                | <b>50</b>                                                                 |
| SD Series | Load Current<br>7:7Amps<br>10:10Amps<br>20:20Amps<br>25:25Amps<br>40:40Amps<br>50:50Amps<br>80:80Amps | Control Type<br>D:DC Control<br>4-32VDC | Load Voltage<br>50:0-50VDC<br>1H:0-100VDC<br>4H:0-400VDC<br>1K:10-1200VDC |

|           |         |          |          |          |          |          |          |
|-----------|---------|----------|----------|----------|----------|----------|----------|
| Model No. | SD-7D50 | —        | —        | SD-25D50 | —        | SD-50D50 | SD-80D50 |
|           | —       | SD-10D1H | SD-20D1H | —        | SD-40D1H | —        | SD-80D1H |
|           | SD-7D4H | —        | SD-20D4H | —        | —        | —        | —        |
|           | —       | —        | —        | SD-25D1K | —        | SD-50D1K | —        |

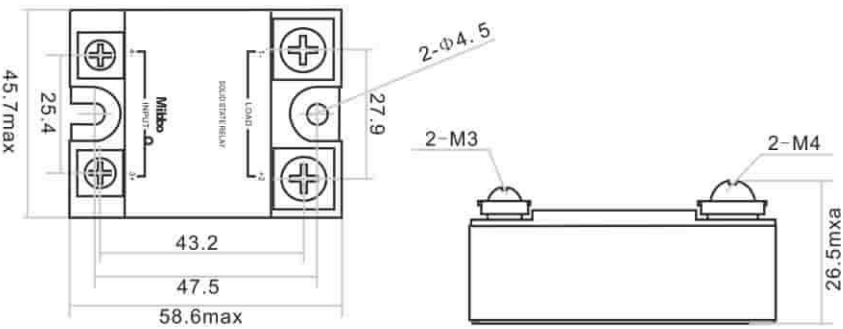
Specification

|                                                  |                                                                                                                                                                                                  |     |     |     |       |       |       |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|-------|-------|
| Input                                            |                                                                                                                                                                                                  |     |     |     |       |       |       |
| Control Voltage Range                            | 4-32VDC                                                                                                                                                                                          |     |     |     |       |       |       |
| Min.Turn-On Voltage                              | 4DC                                                                                                                                                                                              |     |     |     |       |       |       |
| Min.Turn-Off Voltage                             | 1VDC                                                                                                                                                                                             |     |     |     |       |       |       |
| Max.Inout Current                                | 28 mA @32VDC                                                                                                                                                                                     |     |     |     |       |       |       |
| Output                                           |                                                                                                                                                                                                  |     |     |     |       |       |       |
| Rated Load Current                               | 7A                                                                                                                                                                                               | 10A | 20A | 25A | 40A   | 50A   | 80A   |
| Output Voltage Range                             | SD-□D <u>50</u> :0-50VDC; SD-□D1 <u>H</u> :0-100VDC;SD-□D4 <u>H</u> :10-400VDC; SD-□D1 <u>K</u> :10-1200VDC;                                                                                     |     |     |     |       |       |       |
| Max.surge current(@10ms)                         | SD-25D50:75A; SD-50D50:125A; SD-20D1H:80A; SD-40D1H:120A;<br>SD-80D1H:200A; SD-25D1K:75A; SD-50D1K: 100A                                                                                         |     |     |     |       |       |       |
| Max.Turn-On Time                                 | 100 μs                                                                                                                                                                                           |     |     |     |       |       |       |
| Max.Turn-Off Time                                | 500 μs                                                                                                                                                                                           |     |     |     |       |       |       |
| Max.Off-state Leakage Current (at rated voltage) | 0.1mA                                                                                                                                                                                            |     |     |     |       |       |       |
| Max. On-state Voltage Drop.(at rated voltage)    | 1.5VDC                                                                                                                                                                                           |     |     |     |       |       |       |
| General                                          |                                                                                                                                                                                                  |     |     |     |       |       |       |
| Dielectric Strength                              | Input-output□4KVrms Input-base□4KVrms output-base□2.5KVrms                                                                                                                                       |     |     |     |       |       |       |
| Operating Temperature                            | -30℃~+80℃                                                                                                                                                                                        |     |     |     |       |       |       |
| Storage Temperature                              | -30℃~+100℃                                                                                                                                                                                       |     |     |     |       |       |       |
| Weight                                           | 80g                                                                                                                                                                                              |     |     |     |       |       |       |
| Accessory(Optional)                              |                                                                                                                                                                                                  |     |     |     |       |       |       |
| Din-rail mounting accessory                      | DIN-01                                                                                                                                                                                           |     |     |     |       |       |       |
| Heat Transfer Pad                                | SH-D1                                                                                                                                                                                            |     |     |     |       |       |       |
| Protective Cover                                 | SP-D11                                                                                                                                                                                           |     |     |     |       |       |       |
| Heat sink(optional)                              | SH-01                                                                                                                                                                                            |     |     |     | SH-03 | SH-05 | SH-08 |
| Remark①                                          | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70□□ please use a larger heat sink or forced cooling with a fan |     |     |     |       |       |       |

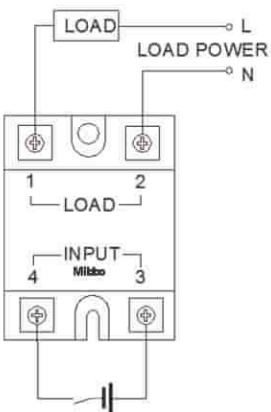
Applications

Dc heating, DC power supply, DC valve, DC motor, Solar Energy, etc.

Mounting Dimension



Wiring Diagram



Characteristic Curves

