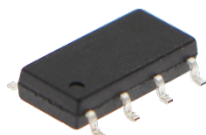


## Product Images



SOP8

## Features

- Contact Form: 2a
- Load Voltage: 40V
- Load Current: 200mA
- Low Off-State Leakage Current: 1.0μA

## Application

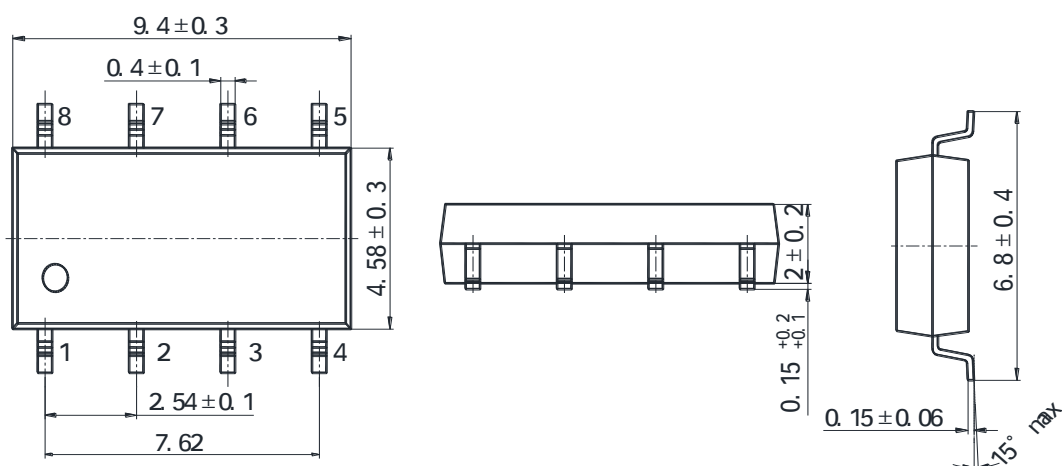
- Automatic Test Equipment
- Telephone Equipment
- Sensing Equipment
- Security Equipment
- I/O Modules
- Modem

## Types

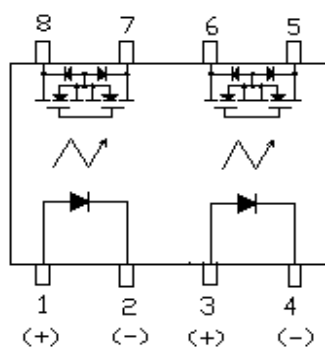
| Output Rating |              | Marking model | Part Number |
|---------------|--------------|---------------|-------------|
| Load voltage  | Load current |               | SMD         |
| 60V           | 200mA        | MJW212S1      | MJW212S1    |

Note: The "A" indicating the pin type is not marked on the product. Please refer to the ordering example model number when placing an order.

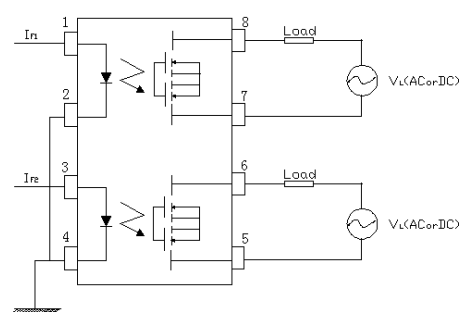
## Dimensions



## Terminal Identification



## Wiring Diagram



[ Technical parameters ( Ambient Temperature 25°C ) ]

### ■ I/O Absolute Maximum Ratings

| Item                              |                                        | Symbol            | Value               |
|-----------------------------------|----------------------------------------|-------------------|---------------------|
| Operating Temperature             |                                        | T <sub>OPR</sub>  | -40°C ~ +85°C       |
| Storage Temperature               |                                        | T <sub>STG</sub>  | -40°C ~ 100°C       |
| Input                             | Continuous LED Current                 | I <sub>F</sub>    | 50mA                |
|                                   | Peak LED Current LED (f=100Hz,Duty=1%) | I <sub>FP</sub>   | 1000mA              |
|                                   | LED Reverse Voltage                    | V <sub>R</sub>    | 5V                  |
|                                   | Input Power Dissipation                | P <sub>IN</sub>   | 75mW                |
| Output                            | Load Voltage                           | V <sub>L</sub>    | 60V (AC peak or DC) |
|                                   | Load Current                           | I <sub>L</sub>    | 200mA               |
|                                   | Peak Load Current ( (1ms,1 shot )      | I <sub>PEAK</sub> | 1000mA              |
|                                   | Output Power Dissipation               | P <sub>OUT</sub>  | 600mW               |
| Total Allowable Power Dissipation |                                        | P <sub>T</sub>    | 650mW               |
| I/O Breakdown Voltage             |                                        | V <sub>I/O</sub>  | 1500Vrms            |
| I/O Breakdown Voltage (Add H)     |                                        | V <sub>I/O</sub>  | 3750Vrms            |

### ■ Electrical Specifications

| Item           |                           | Symbol             | MIN. | TYP. | MAX. | Units | Conditions                                                    |
|----------------|---------------------------|--------------------|------|------|------|-------|---------------------------------------------------------------|
| Input          | LED Forward Voltage       | V <sub>F</sub>     |      | 1.3  | 1.5  | V     | I <sub>F</sub> =10mA                                          |
|                | Operation LED Current     | I <sub>F ON</sub>  |      | 0.8  | 2.0  | mA    |                                                               |
|                | Recovery LED Voltage      | V <sub>F OFF</sub> | 0.7  |      |      | V     |                                                               |
| Output         | On-Resistance             | R <sub>ON</sub>    |      | 2    | 5    | Ω     | I <sub>F</sub> =5mA,I <sub>L</sub> =Rating<br>(with in 1sec.) |
|                | Off-State Leakage Current | I <sub>LEAK</sub>  |      |      | 1.0  | μA    | V <sub>L</sub> =60V                                           |
|                | Output Capacitance        | C <sub>OUT</sub>   |      | 12   |      | pF    | V <sub>L</sub> =0V,f=1MHz                                     |
| Time parameter | Turn-On Time              | T <sub>ON</sub>    |      | 0.15 | 0.5  | ms    | I <sub>F</sub> =5mA                                           |
|                | Turn-Off Time             | T <sub>OFF</sub>   |      | 0.05 | 0.5  | ms    | I <sub>L</sub> =100mA                                         |
| I/O            | I/O Insulation Resistance | R <sub>I/O</sub>   | 1000 |      |      | MΩ    | DC500V                                                        |
|                | I/O Capacitance           | C <sub>I/O</sub>   |      | 0.8  |      | pF    | f=1MHz                                                        |

## Characteristic curve

