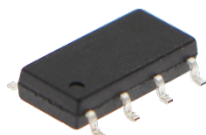


## ■ Product Images



SOP8

## ■ Features

- Contact Form: 2a
- Load Voltage: 100V
- Load Current: 1.1A
- Low Off-State Leakage Current: 1.0μA

## ■ Application

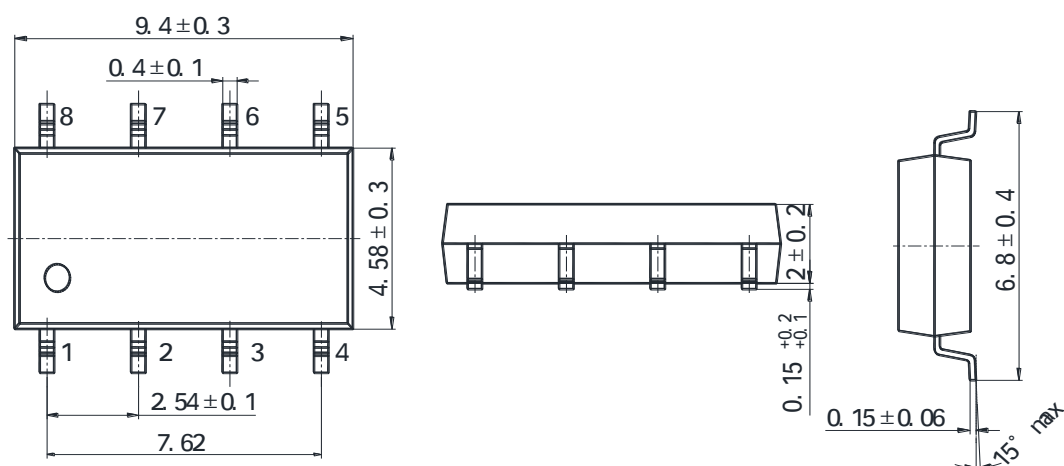
- Automatic Test Equipment
- Telephone Equipment
- Sensing Equipment
- Security Equipment
- I/O Modules
- Modem

## ■ Types

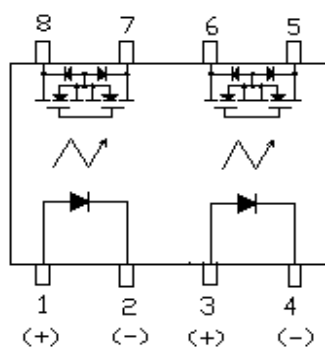
| Output Rating |              | Marking model | Part Number |
|---------------|--------------|---------------|-------------|
| Load voltage  | Load current |               | SMD         |
| 100V          | 1.1A         | MJW215S       | MJW215S     |

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.

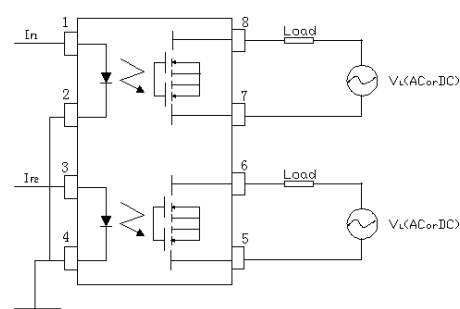
## ■ Dimensions



## ■ 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>    | 100V (AC peak or DC) |
|                                   | Load Current                           | I <sub>L</sub>    | 1.1A                 |
|                                   | Peak Load Current ( 1ms,1 shot )       | I <sub>PEAK</sub> | 3A                   |
|                                   | 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>  |      | 1.2  | 3.0  | mA    |                                                             |
|                | Recovery LED Voltage      | V <sub>F OFF</sub> | 0.7  |      |      | V     |                                                             |
| Output         | On-Resistance             | R <sub>ON</sub>    |      | 0.15 | 0.25 | Ω     | I <sub>F</sub> =5mA,I <sub>L</sub> =1.1A<br>(with in 1sec.) |
|                | Off-State Leakage Current | I <sub>LEAK</sub>  |      |      | 1.0  | μA    | V <sub>L</sub> =100V                                        |
|                | Output Capacitance        | C <sub>OUT</sub>   |      | 98   |      | pF    | V <sub>L</sub> =0V,f=1MHz                                   |
| Time parameter | Turn-On Time              | T <sub>ON</sub>    |      | 1    | 3    | ms    | I <sub>F</sub> =5mA<br>I <sub>L</sub> =100mA                |
|                | Turn-Off Time             | T <sub>OFF</sub>   |      | 0.06 | 0.3  | ms    |                                                             |
| I/O            | I/O Insulation Resistance | R <sub>I/O</sub>   | 1000 |      |      | MΩ    | DC500V                                                      |
|                | I/O Capacitance           | C <sub>I/O</sub>   |      | 1.8  |      | pF    | f=1MHz                                                      |

## Characteristic curve

