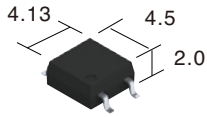
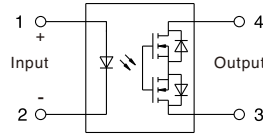




**ADVANCE  
MOS RELAY**



mm inch



**FEATURES**

1. Small SOP4-Pin package
2. Low-level off state leakage current of max. 50nA
3. Load voltage 60V available
4. Low capacitance available at CxR20  
Output capacitance Typ. 5pf  
On resistance Typ. 4Ω

**APPLICATIONS**

- Measuring instruments  
Tester, etc.
- Security and disaster-preventing system  
Use in I/O for alarm and security devices, etc.

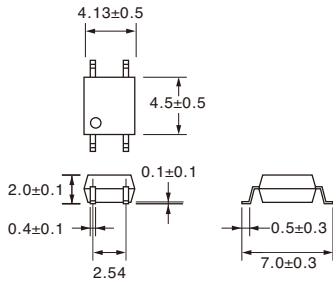
**ABSOLUTE MAXIMUM RATINGS (AMBIENT TEMPERATURE : 25 °C)**

| ITEM                    |                          | SYMBOL            | VALUE       | UNITS            | REMARKS           |
|-------------------------|--------------------------|-------------------|-------------|------------------|-------------------|
| INPUT                   | Continuous Led Current   | I <sub>F</sub>    | 50          | mA               |                   |
|                         | Peak Led Current         | I <sub>FP</sub>   | 500         | mA               | f= 100Hz,duty= 1% |
|                         | Led Reverse Voltage      | V <sub>R</sub>    | 5           | V                |                   |
|                         | Input Power Dissipation  | P <sub>IN</sub>   | 75          | mW               |                   |
| OUTPUT                  | Load Voltage             | V <sub>L</sub>    | 60          | V                | (AC peak or DC)   |
|                         | Load Current             | I <sub>L</sub>    | 200         | mA               |                   |
|                         | Peak Load Current        | I <sub>PEAK</sub> | 600         | mA               | 1ms(1 pulse)      |
|                         | Output Power Dissipation | P <sub>OUT</sub>  | 300         | mW               |                   |
| Total Power Dissipation |                          | P <sub>T</sub>    | 350         | mW               |                   |
| I/O Breakdown Voltage   |                          | V <sub>I/O</sub>  | 4500        | V <sub>rms</sub> | RH = 60%,1min     |
| Operating Temperature   |                          | T <sub>OPR</sub>  | -40 to +85  | °C               |                   |
| Storage Temperature     |                          | T <sub>STG</sub>  | -40 to +100 | °C               |                   |

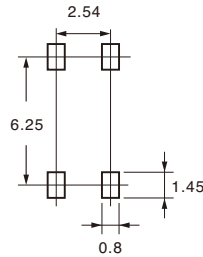
**ELECTRICAL SPECIFICATION**

| ITEM                |                           | SYMBOL | VALUE           | UNITS                 | CONDITIONS                                                  |
|---------------------|---------------------------|--------|-----------------|-----------------------|-------------------------------------------------------------|
| INPUT               | LED Operate Current       | TYP.   | 0.8             | mA                    | I <sub>L</sub> = Max.                                       |
|                     |                           | MAX.   | 2.5             | mA                    |                                                             |
|                     | LED Turn Off Current      | MIN.   | 0.3             | mA                    | I <sub>L</sub> = Max.                                       |
|                     |                           | TYP.   | 0.7             | mA                    |                                                             |
| LED Dropout Voltage | TYP.                      | 1.1    | V               | I <sub>F</sub> = 10mA |                                                             |
|                     | MAX.                      | 1.5    | V               |                       |                                                             |
| OUTPUT              | On-resistance             | TYP.   | 4               | Ω                     | I <sub>F</sub> = 5mA, I <sub>L</sub> = Rating, Within 1 sec |
|                     |                           | MAX.   | 6               | Ω                     |                                                             |
|                     | Off-state Leakage Current | MAX.   | 50              | nA                    | V <sub>L</sub> = 60V                                        |
| Output Capacitance  |                           | TYP.   | 5               | pF                    | V <sub>L</sub> = 0, F = 1MHz                                |
| TRANSMISSION        | Turn-on Time              | TYP.   | 0.1             | ms                    | I <sub>F</sub> = 5mA, I <sub>L</sub> = Rating               |
|                     |                           | MAX.   | 0.5             | ms                    |                                                             |
|                     | Turn-off Time             | TYP.   | 0.03            | ms                    |                                                             |
|                     |                           | MAX.   | 0.5             | ms                    |                                                             |
| COUPLED             | I/O Isolation Resistance  | MIN.   | 10 <sup>9</sup> | Ω                     |                                                             |
|                     | I/O Capacitance           | MAX.   | 1.3             | pF                    | f = 1MHz                                                    |

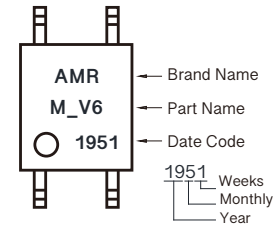
# ▲ DIMENSIONS



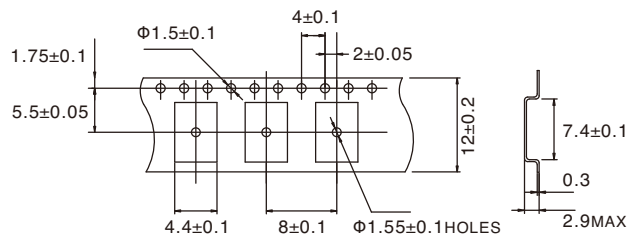
Actual Mounting Pad Dimensions  
(Top view)



Marking



Tape Form and Dimensions



Reel Form and Dimensions

