



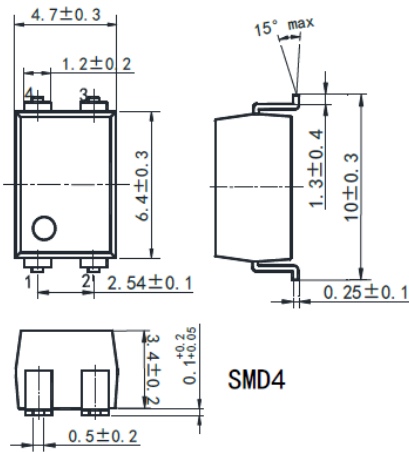
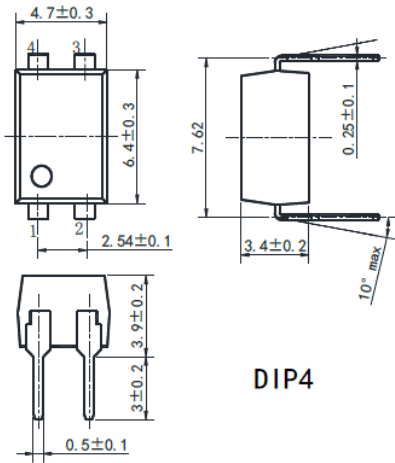
| 产品图片                                                                                                                                                                                   | Features 产品特性                                                                                                                                                                                          | Application 应用                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>DIP4<br><br>SMD4 | <ul style="list-style-type: none"><li>●Contact Form<br/>触点形式 1a</li><li>●Load Voltage<br/>输出电压 100V</li><li>● Load Current<br/>输出电流 1.3A</li><li>●Low Off-State Leakage Current<br/>漏电流 1 μA</li></ul> | <ul style="list-style-type: none"><li>●Automatic Test Equipment<br/>自动检测设备</li><li>●Telephone Equipment<br/>通信设备</li><li>●Sensing Equipment<br/>传感设备</li><li>●Security Equipment<br/>安全设备</li><li>●I/O Modules<br/>I/O 模块</li><li>●Modem<br/>调制解调器</li></ul> |

Type 种类

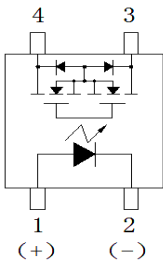
| Output rating 输出额定   |                      | Marking model<br>标刻型号 | Part No. 订货型号 |             |
|----------------------|----------------------|-----------------------|---------------|-------------|
| Load voltage<br>负载电压 | Load current<br>负载电流 |                       | DIP<br>双列直插   | SMD<br>表面贴装 |
| 100V                 | 1.3A                 | BCY215G1              | BCY215G1      | BCY215G1A   |

注：表示引脚类型的“A”未标刻在产品上，订货依据订货示例型号。

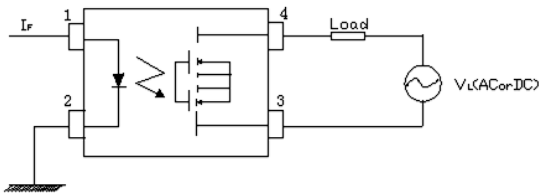
Dimensions 外形尺寸



Terminal Identification 引脚标识



Wiring Diagram 接线图





## Technical parameters 技术参数 (Ambient Temperature 25°C)

I/O Absolute Maximum Ratings 输入输出电气参数最大值

| Item 项目                                |                                                 |          | Symbol 符号  | BCY215G1             |
|----------------------------------------|-------------------------------------------------|----------|------------|----------------------|
| Operating Temperature 工作温度             |                                                 |          | $T_{OPR}$  | -40°C~+85°C          |
| Storage Temperature 储存温度               |                                                 |          | $T_{STG}$  | -40°C~+100°C         |
| Input<br>输入                            | Continuous LED Current 工作电流                     | MAX. 最大值 | $I_F$      | 50mA                 |
|                                        | Peak LED Current LED 峰值电流<br>(f=100Hz, Duty=1%) | MAX. 最大值 | $I_{FP}$   | 1000mA               |
|                                        | LED Reverse Voltage 反向电压                        | MAX. 最大值 | $V_R$      | 5V                   |
|                                        | Input Power Dissipation 输入功耗                    | MAX. 最大值 | $P_{IN}$   | 75mW                 |
| Output<br>输出                           | Load Voltage 输出电压                               | MAX. 最大值 | $V_L$      | 100V (AC peak or DC) |
|                                        | Load Current 输出电流                               | MAX. 最大值 | $I_L$      | 1.3A                 |
|                                        | Peak Load Current 峰值输出电流<br>(100ms, 1shot)      | MAX. 最大值 | $I_{PEAK}$ | 4A                   |
|                                        | Output Power Dissipation 输出功耗                   | MAX. 最大值 | $P_{OUT}$  | 450mW                |
| Total Power Dissipation 总功耗            |                                                 | MAX. 最大值 | $P_T$      | 500mW                |
| I/O Breakdown Voltage 输入输出间隔离电压        |                                                 | MAX. 最大值 | $V_{I/O}$  | 3750Vrms             |
| I/O Breakdown Voltage 输入输出间隔离电压 (加注 H) |                                                 | MAX. 最大值 | $V_{I/O}$  | 5000Vrms             |

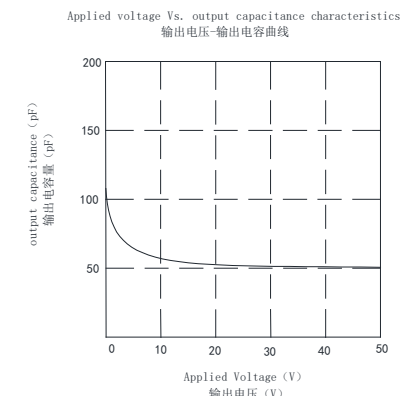
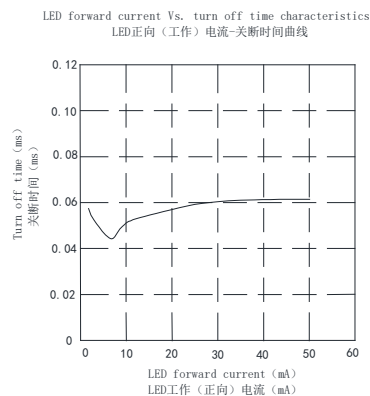
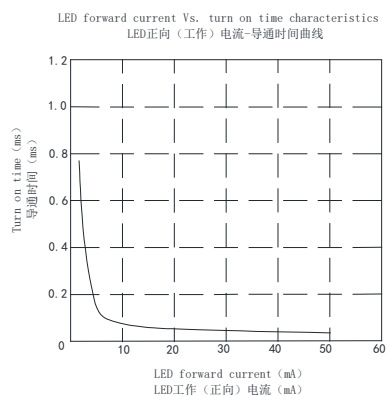
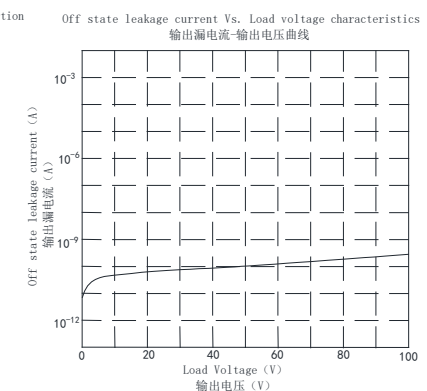
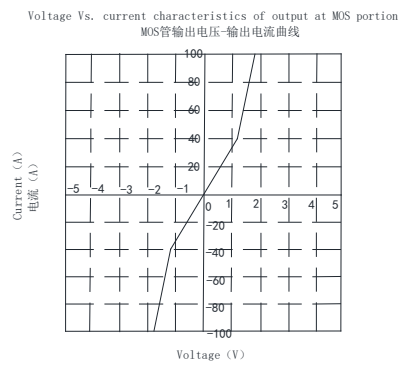
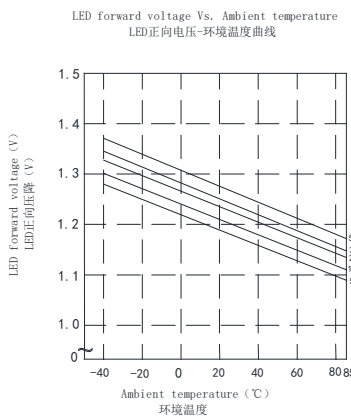
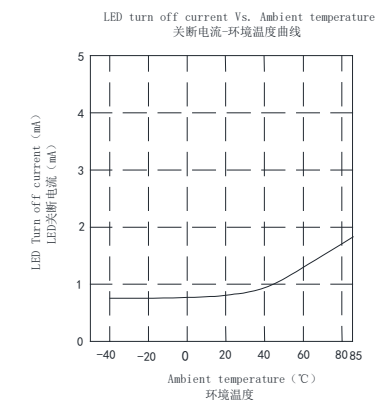
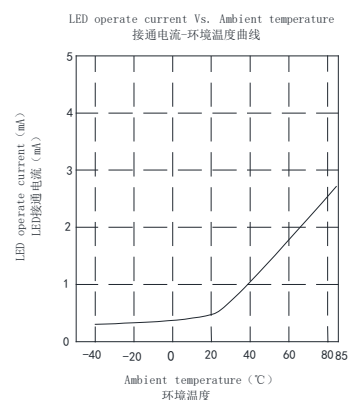
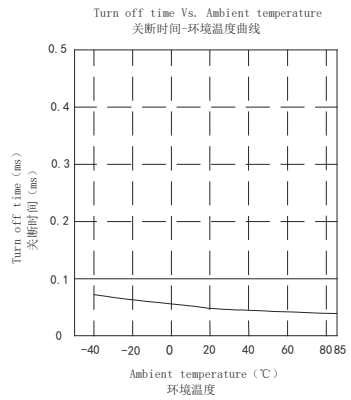
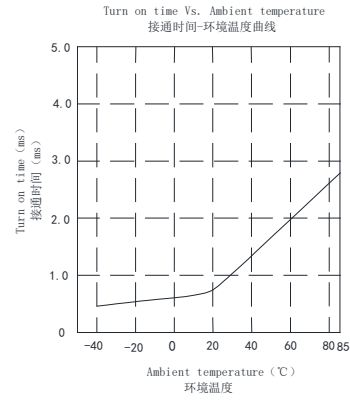
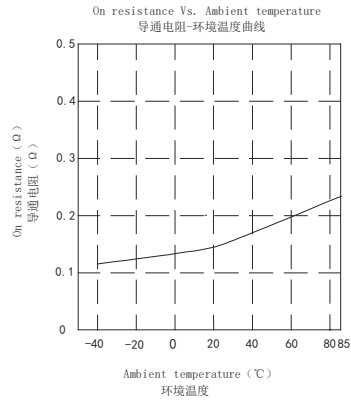
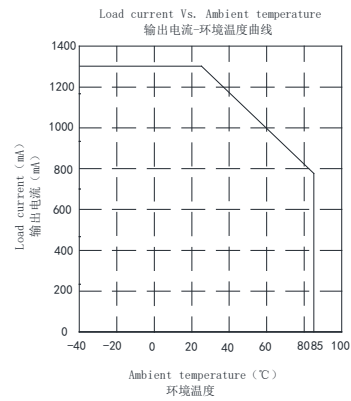
Electrical Specifications 输入输出电气参数

| Item 项目                 |                                   |          | Symbol 符号   | BCY215G1 | Conditions 条件                           |
|-------------------------|-----------------------------------|----------|-------------|----------|-----------------------------------------|
| Input<br>输入             | LED Forward Voltage<br>正向电压       | TYP. 典型值 | $V_F$       | 1.3V     | $I_F=10mA$                              |
|                         |                                   | MAX. 最大值 |             | 1.5V     |                                         |
|                         | Operation LED Current<br>接通电流     | TYP. 典型值 | $I_{F ON}$  | 0.5mA    |                                         |
|                         |                                   | MAX. 最大值 |             | 3mA      |                                         |
| Output<br>输出            | Recovery LED Voltage<br>关断电压      | MIN. 最小值 | $V_{F OFF}$ | 0.7V     |                                         |
|                         | On-Resistance<br>导通电阻             | TYP. 典型值 | $R_{ON}$    | 0.15Ω    | $I_F=5mA, I_L=Rating,$<br>within 1 sec. |
|                         |                                   | MAX. 最大值 |             | 0.25Ω    |                                         |
|                         | Off-State Leakage Current<br>漏电流  | MAX. 最大值 | $I_{LEAK}$  | 1μA      | $V_L=Rating$                            |
| Time parameters<br>时间参数 | Turn-On Time<br>接通时间              | TYP. 典型值 | $T_{ON}$    | 0.8ms    | $I_F=10mA, I_L=100mA$                   |
|                         |                                   | MAX. 最大值 |             | 3ms      |                                         |
|                         | Turn-Off Time<br>关断时间             | TYP. 典型值 | $T_{OFF}$   | 0.05ms   |                                         |
|                         |                                   | MAX. 最大值 |             | 0.5ms    |                                         |
| I/O<br>输入输出             | I/O Insulation Resistance<br>绝缘电阻 | MIN. 最小值 | $R_{I/O}$   | 1000MΩ   | 500VDC                                  |
|                         | I/O Capacitance<br>隔离电容           | TYP. 典型值 | $C_{I/O}$   | 0.8pF    | f=1MHz                                  |



# PhotoMOS 光 MOS 继电器 (SMD4/DIP4)

## Reference Data 参考数值(BCY215G1)



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