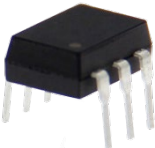




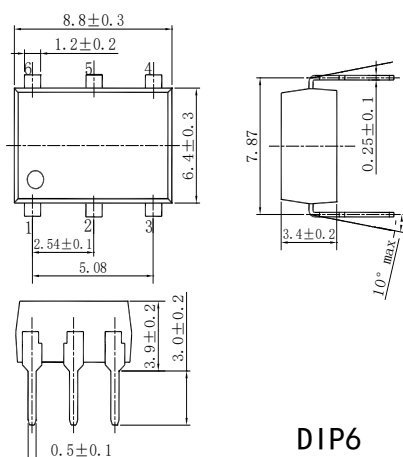
| 产品图片                                                                                                                                                                                   | Features 产品特性                                                                                                                                                                           | Application 应用                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>DIP6<br><br>SMD6 | <ul style="list-style-type: none"><li>●Contact Form 触点形式 1a</li><li>●Load Voltage 输出电压 1500V</li><li>●Load Current 输出电流 45mA</li><li>●Low Off-State Leakage Current 漏电流 10 μA</li></ul> | <ul style="list-style-type: none"><li>●Automatic Test Equipment 自动检测设备</li><li>●Telephone Equipment 通信设备</li><li>●Sensing Equipment 传感设备</li><li>●Security Equipment 安全设备</li><li>●I/O Modules I/O 模块</li><li>●Modem 调制解调器</li></ul> |

## Type 种类

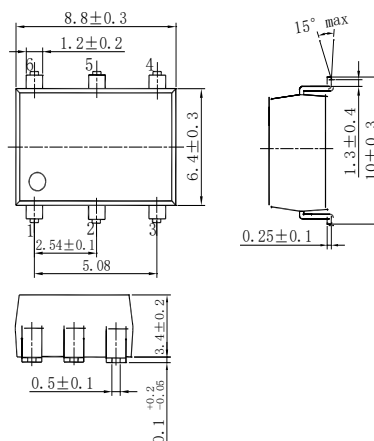
| Output rating 输出额定 |                   | Marking model 标刻型号 | Part No. 订货型号 |          |
|--------------------|-------------------|--------------------|---------------|----------|
| Load voltage 负载电压  | Load current 负载电流 |                    | DIP 双列直插      | SMD 表面贴装 |
| 1500V              | 45mA、50mA、75mA    | BCV258             | BCV258        | BCV258A  |

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

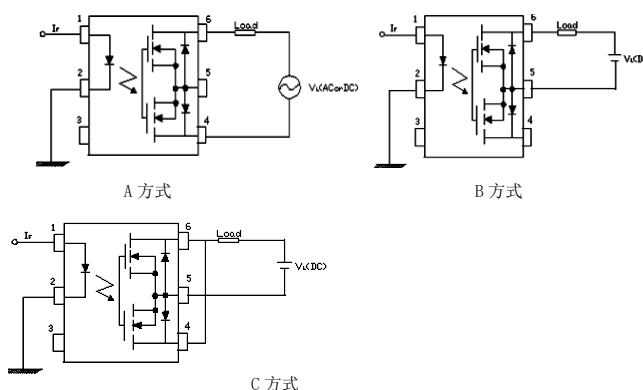
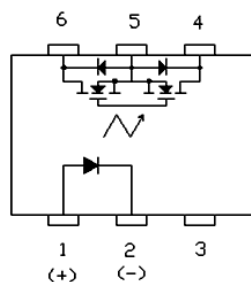


DIP6



SMD6

## Terminal Identification 引脚标识 Wiring Diagram 接线图





# PhotoMOS 光 MOS 继电器 (SMD6/DIP6)

## 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  | BCV258                                          |      |    |
|----------------------------------------|----------------------------------------------|------------|-------------------------------------------------|------|----|
| Operating Temperature 工作温度             |                                              | $T_{OPR}$  | $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$  |      |    |
| Storage Temperature 储存温度               |                                              | $T_{STG}$  | $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ |      |    |
| Input<br>输入                            | Continuous LED Current 工作电流                  | $I_F$      | 50mA                                            |      |    |
|                                        | Peak LED Current LED 峰值电流 (f=100Hz, Duty=1%) | $I_{FP}$   | 1000mA                                          |      |    |
|                                        | LED Reverse Voltage 反向电压                     | $V_R$      | 5V                                              |      |    |
|                                        | Input Power Dissipation 输入功耗                 | $P_{IN}$   | 75mW                                            |      |    |
| Output<br>输出                           | Load Voltage 输出电压                            | $V_L$      | 1500V (AC peak or DC)                           |      |    |
|                                        | Load Current 输出电流                            | $I_L$      | A                                               | 45mA | AC |
|                                        |                                              |            | B                                               | 50mA | DC |
|                                        |                                              |            | C                                               | 75mA | DC |
|                                        | Peak Load Current 峰值输出电流 ((100ms, 1 shot)    | $I_{PEAK}$ | 180mA                                           |      |    |
| Output Power Dissipation 输出功耗          |                                              | $P_{OUT}$  | 450mW                                           |      |    |
| Total Power Dissipation 总功耗            |                                              | $P_T$      | 500mW                                           |      |    |
| I/O Breakdown Voltage 输入输出间隔离电压        |                                              | $V_{I/O}$  | 3750Vrms                                        |      |    |
| I/O Breakdown Voltage 输入输出间隔离电压 (加注 H) |                                              | $V_{I/O}$  | 5000Vrms                                        |      |    |

Electrical Specifications 输入输出电气参数

| Item 项目                |                                       |          | Symbol<br>符号       | BCV258 |       |       | Conditions<br>条件                                                |
|------------------------|---------------------------------------|----------|--------------------|--------|-------|-------|-----------------------------------------------------------------|
|                        |                                       |          |                    | A      | B     | C     |                                                                 |
| Input<br>输入            | LED Forward Voltage<br>正向电压           | TYP. 典型值 | V <sub>F</sub>     | 1.3V   |       |       | I <sub>F</sub> =10mA                                            |
|                        |                                       | MAX. 最大值 |                    | 1.5V   |       |       |                                                                 |
|                        | Operation LED Current<br>接通电流         | TYP. 典型值 | I <sub>F ON</sub>  | 0.8mA  |       |       |                                                                 |
|                        |                                       | MAX. 最大值 |                    | 5mA    |       |       |                                                                 |
|                        | Recovery LED Voltage 关断电压             | MIN. 最小值 | V <sub>F OFF</sub> | 0.7V   |       |       |                                                                 |
| Output<br>输出           | On-Resistance<br>导通电阻 R <sub>ON</sub> | TYP. 典型值 | R <sub>ON</sub>    | 140 Ω  | 80 Ω  | 40 Ω  | I <sub>F</sub> =10mA,<br>I <sub>L</sub> =Rating<br>within 1sec. |
|                        |                                       | MAX. 最大值 |                    | 220 Ω  | 220 Ω | 110 Ω |                                                                 |
|                        | Off-State Leakage Current<br>漏电流      | MAX. 最大值 | I <sub>LEAK</sub>  | 10μA   |       |       | V <sub>L</sub> =Rating                                          |
|                        | Output Capacitance<br>输出端容量           | TYP. 典型值 | C <sub>OUT</sub>   | 58pF   |       |       | V <sub>L</sub> =0V, f=1MHz                                      |
| Timeparameters<br>时间参数 | Turn-On Time<br>接通时间                  | TYP. 典型值 | T <sub>ON</sub>    | 0.3ms  |       |       | I <sub>F</sub> =10mA, I <sub>L</sub> =Rating                    |
|                        |                                       | MAX. 最大值 |                    | 1ms    |       |       |                                                                 |
|                        | Turn-Off Time<br>关断时间                 | TYP. 典型值 | T <sub>OFF</sub>   | 0.03ms |       |       |                                                                 |
|                        |                                       | MAX. 最大值 |                    | 0.2ms  |       |       |                                                                 |
| I/O<br>输入输出            | I/O Insulation Resistance 绝缘<br>电阻    | MIN. 最小值 | R <sub>I/O</sub>   | 1000MΩ |       |       | DC500V                                                          |
|                        |                                       | TYP. 典型值 | C <sub>I/O</sub>   | 0.8pF  |       |       | f=1MHz                                                          |
|                        | I/O Capacitance<br>隔离电容               | MAX. 最大值 |                    | 1.5pF  |       |       |                                                                 |

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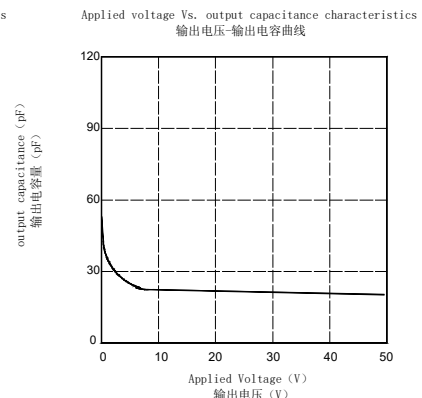
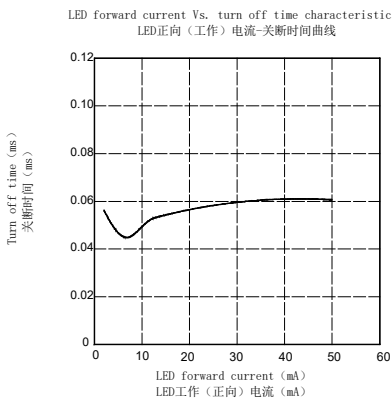
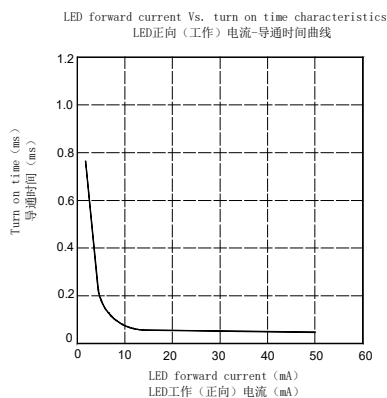
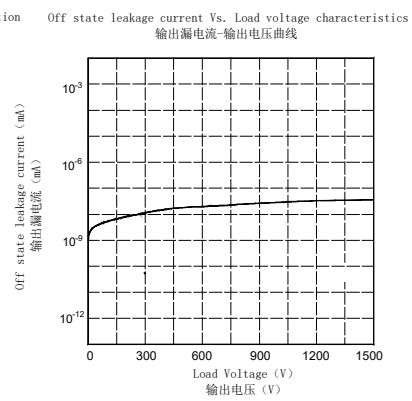
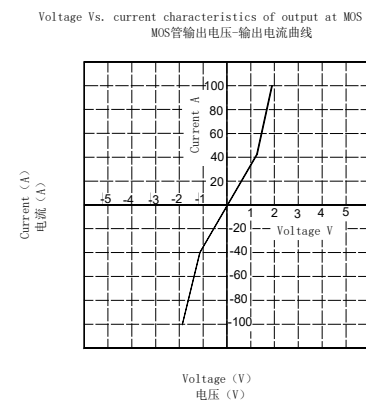
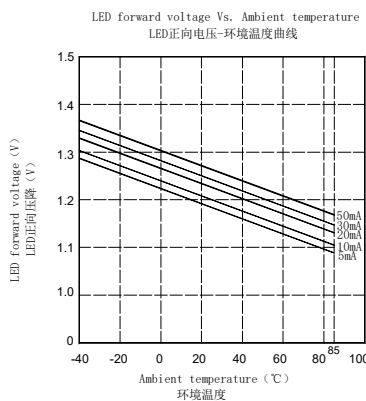
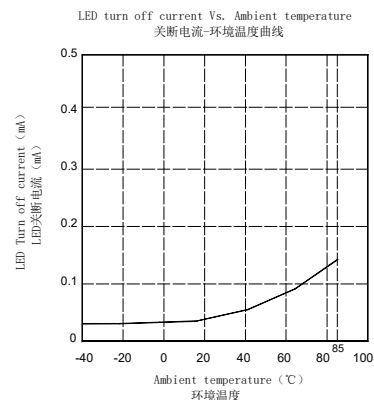
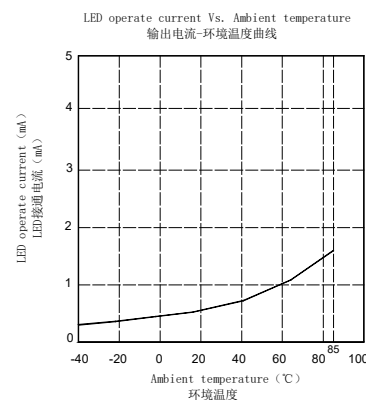
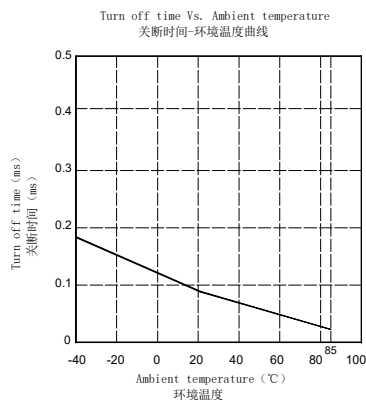
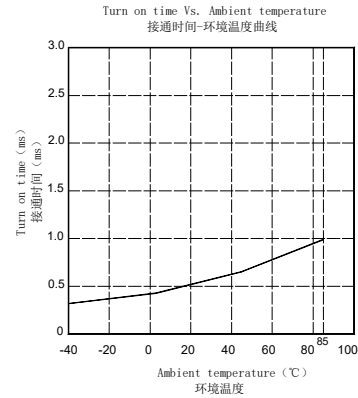
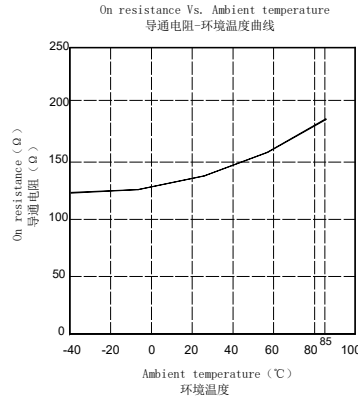
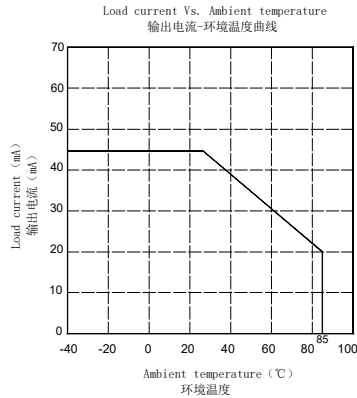
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## Reference Data 参考数值 (BCV258)



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