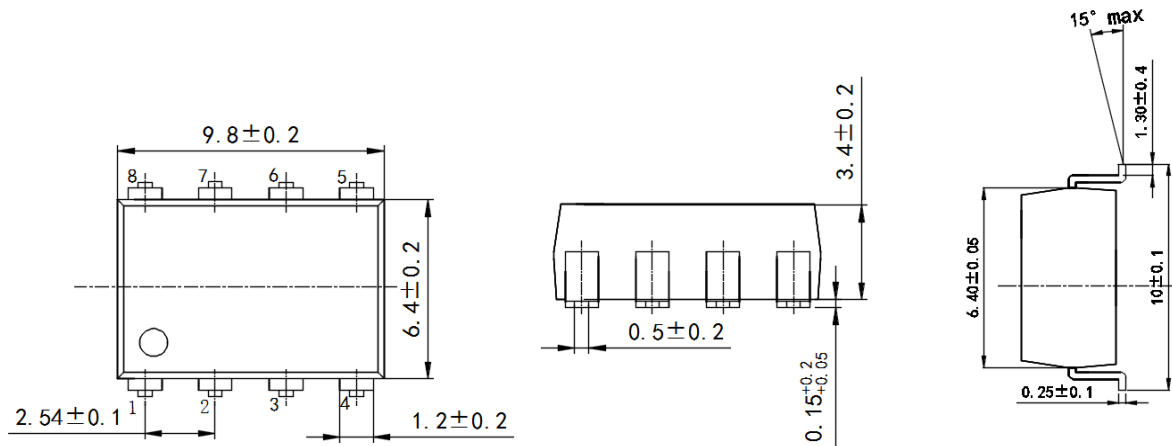
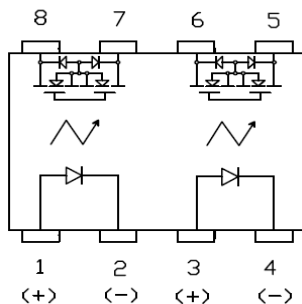


| 产品图片               | Features 产品特性  | Application 应用  |
|--------------------|--|---|
| <p><b>SMD8</b></p> | <ul style="list-style-type: none"> <li>● Contact Form<br/>触点形式 2a</li> <li>● Load Voltage<br/>输出电压 600V</li> <li>● Load Current<br/>输出电流 70mA</li> <li>● Operation LED Current<br/>二极管导通电流 3.0mA</li> <li>● On-Resistance<br/>导通电阻 40 Ω</li> <li>● Output Capacitance<br/>输出电容 47pF</li> <li>● Low Off-State Leakage Current<br/>漏电流 1.0 μA</li> </ul> | <ul style="list-style-type: none"> <li>● Electric Vehicle<br/>新能源汽车</li> <li>● Automatic Test Equipment<br/>自动检测设备</li> <li>● Security Equipment<br/>安全设备</li> <li>● Sensing Equipment<br/>传感设备</li> <li>● Telephone Equipment<br/>通信设备</li> <li>● I/O Modules<br/>I/O 模块</li> <li>● Modem<br/>调制解调器</li> </ul> |

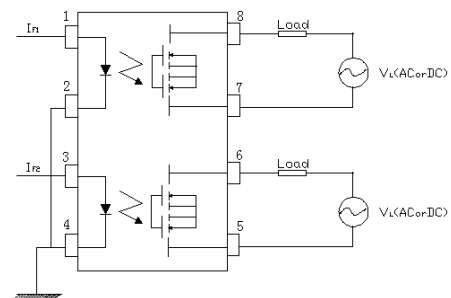
## Dimensions 外形尺寸



## 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         | Value 数值             |
|--|---|-------------------|----------------------|
| Operating Temperature 工作温度             |   | T <sub>OPR</sub>  | -40°C ~ +85°C        |
| Storage Temperature 储存温度               |   | T <sub>STG</sub>  | -40°C ~ +100°C       |
| Input 输入                               | Continuous LED Current 工作电流                     | I <sub>F</sub>    | 50mA                 |
|  | Peak LED Current LED 峰值电流<br>(f=100Hz, Duty=1%) | I <sub>FP</sub>   | 500mA                |
|  | LED Reverse Voltage 反向电压                        | V <sub>R</sub>    | 5V                   |
|  | Input Power Dissipation 输入功耗                    | P <sub>IN</sub>   | 75mW                 |
| Output 输出                              | Load Voltage 输出电压                               | V <sub>L</sub>    | 600V (AC peak or DC) |
|  | Load Current 输出电流                               | I <sub>L</sub>    | 70mA                 |
|  | Peak Load Current 峰值输出电流 (1ms, 1 shot)          | I <sub>PEAK</sub> | 200mA                |
|  | Output Power Dissipation 输出功耗                   | P <sub>OUT</sub>  | 600mW                |
| Total Power Dissipation 总功耗            |   | P <sub>T</sub>    | 650mW                |
| I/O Breakdown Voltage 输入输出间隔离电压        |   | V <sub>I/O</sub>  | 3750Vrms             |
| I/O Breakdown Voltage 输入输出间隔离电压 (加注 H) |   | V <sub>I/O</sub>  | 5000Vrms             |

## Electrical Specifications 输入输出电气参数

| Item 项目              |                                | Symbol 符号          | MIN. 最小值        | TYP. 典型值 | MAX. 最大值 | Units 单位 | Conditions 条件  |
|----------------------|--------------------------------|--------------------|-----------------|----------|----------|----------|--|
| Input 输入             | LED Forward Voltage 正向电压       | V <sub>F</sub>     | 1.0             | 1.17     | 1.5      | V        | I <sub>F</sub> =10mA                                     |
|                      | Operation LED Current 接通电流     | I <sub>F ON</sub>  |                 | 1.0      | 3.0      | mA       |  |
|                      | Recovery LED Voltage 关断电压      | V <sub>F OFF</sub> | 0.5             | 1.0      |          | V        |  |
| Output 输出            | On-Resistance 导通电阻             | R <sub>ON</sub>    |                 | 40       | 60       | Ω        | I <sub>F</sub> =5mA, I <sub>L</sub> =Rating within 1sec. |
|                      | Off-State Leakage Current 漏电流  | I <sub>LEAK</sub>  |                 |          | 1.0      | μA       | V <sub>L</sub> =600V                                     |
|                      | Output Capacitance 输出端容量       | C <sub>OUT</sub>   |                 | 47       |          | pF       | V <sub>L</sub> =0V, f=1MHz                               |
| I/O 输入输出             | I/O Insulation Resistance 绝缘电阻 | R <sub>I/O</sub>   | 10 <sup>9</sup> |          |          | Ω        |  |
|                      | I/O Capacitance 隔离电容           | C <sub>I/O</sub>   |                 | 1.3      |          | pF       | f=1MHz   |
| Time parameters 时间参数 | Turn-On Time 接通时间              | T <sub>ON</sub>    |                 | 0.1      | 1.0      | ms       | I <sub>F</sub> =10mA                                     |
|                      | Turn-Off Time 关断时间             | T <sub>OFF</sub>   |                 | 0.05     | 0.5      | ms       | I <sub>L</sub> =Rating                                   |

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生产地址: 陕西省宝鸡市陈仓区群力路1号邮政编码: 721300

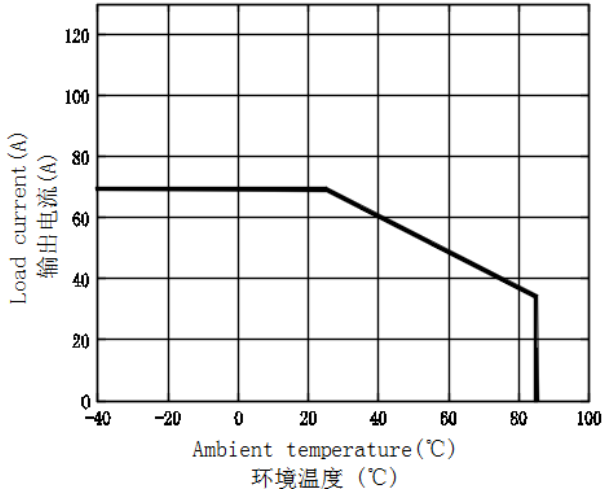
电话: (0917)-6293969 (0917)-6293785

传真: (0917)-6293969

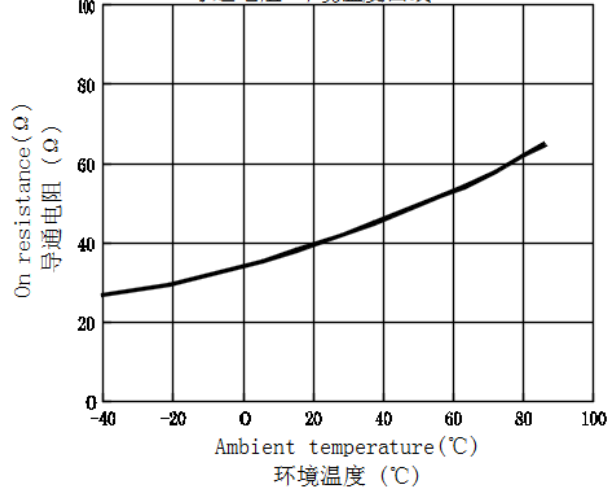


Reference Data 曲线图

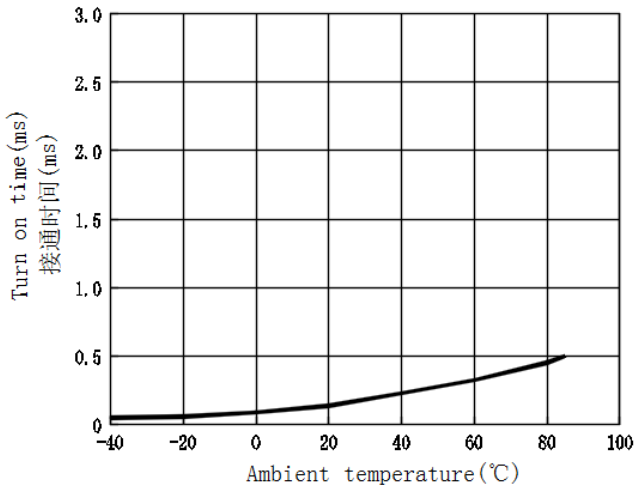
Load current Vs. Ambient temperature  
输出电流-环境温度曲线



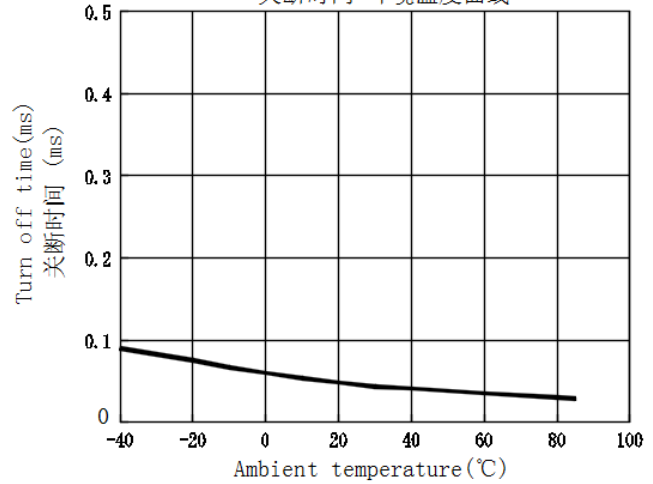
On resistance Vs. Ambient temperature  
导通电阻-环境温度曲线



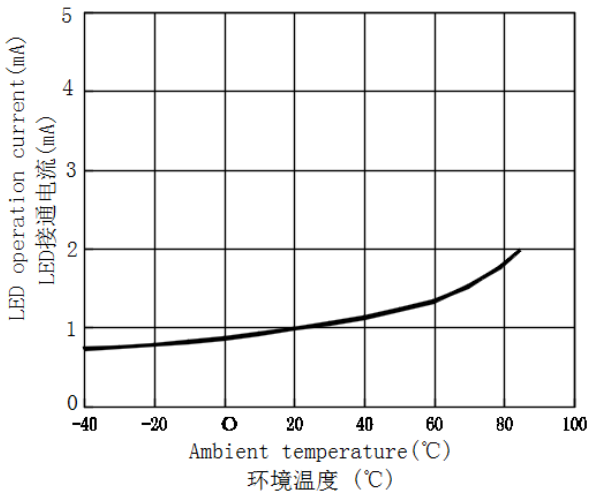
Turn on time Vs. Ambient temperature  
接通时间-环境温度曲线



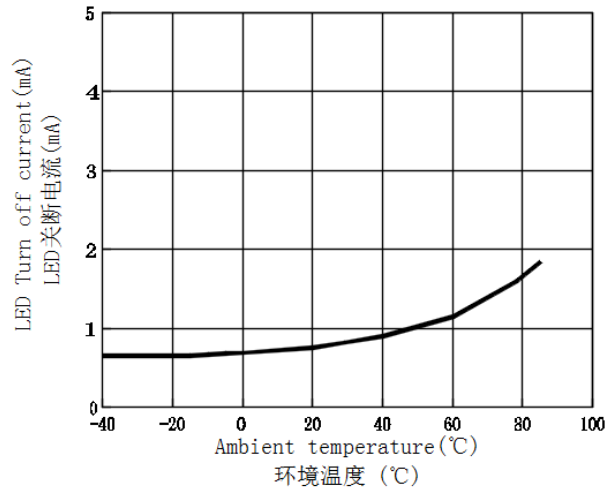
Turn off time Vs. Ambient temperature  
关断时间-环境温度曲线



LED operation current Vs. Ambient temperature  
LED接通电流-环境温度曲线



LED Turn off current Vs. Ambient temperature  
LED关断电流-环境温度曲线



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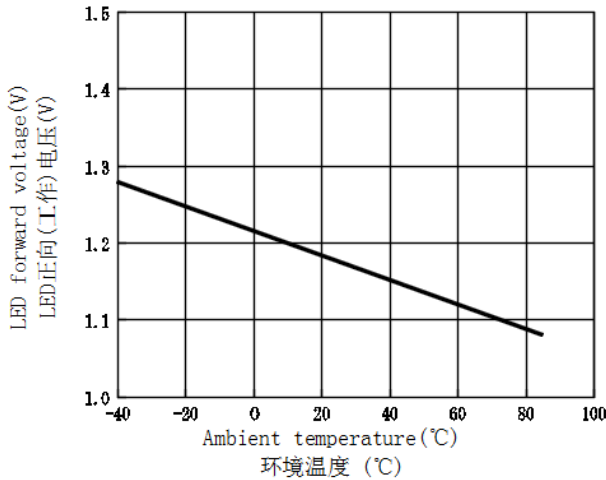
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传真：(0917)-6293969

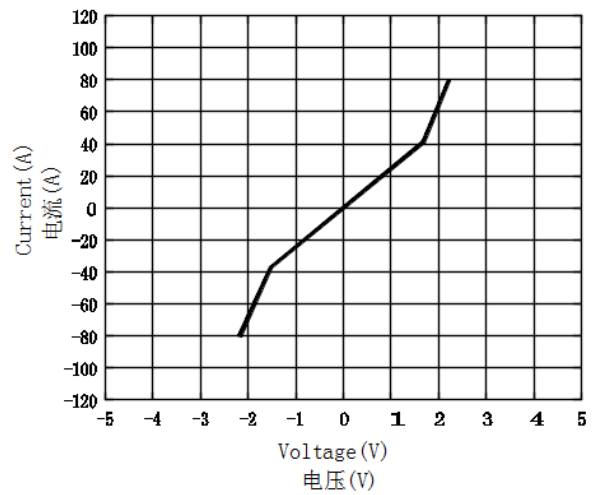


# BCW216A 型光 MOS 继电器

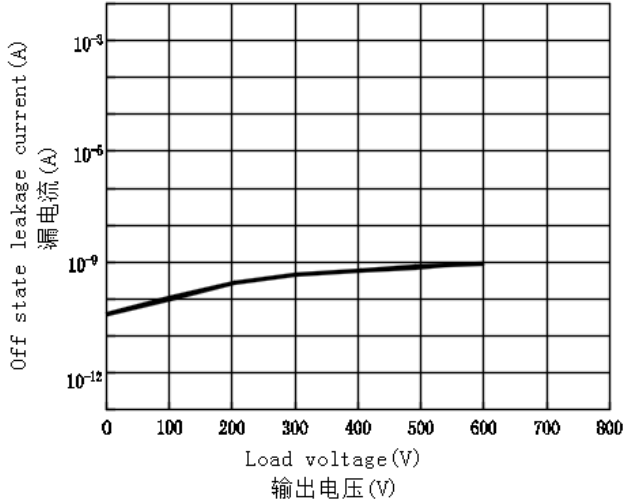
LED forward voltage Vs. Ambient temperature  
LED正向(工作)电压-环境温度曲线



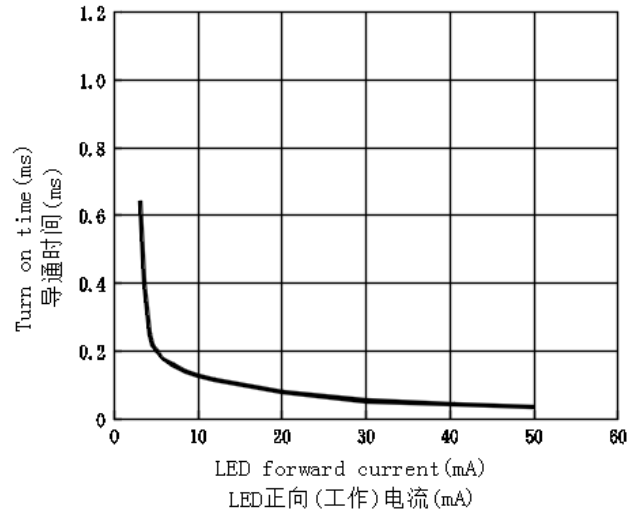
Voltage Vs. current characteristics of output at MOS portion  
MOS管输出电压-输出电流曲线



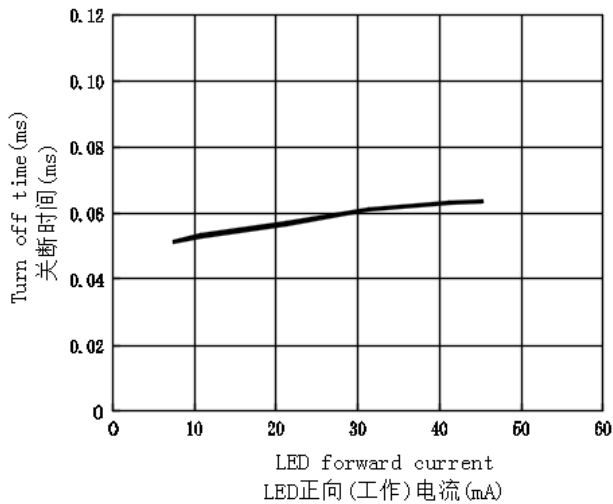
Off state leakage current Vs. Load voltage  
漏电流-输出电压



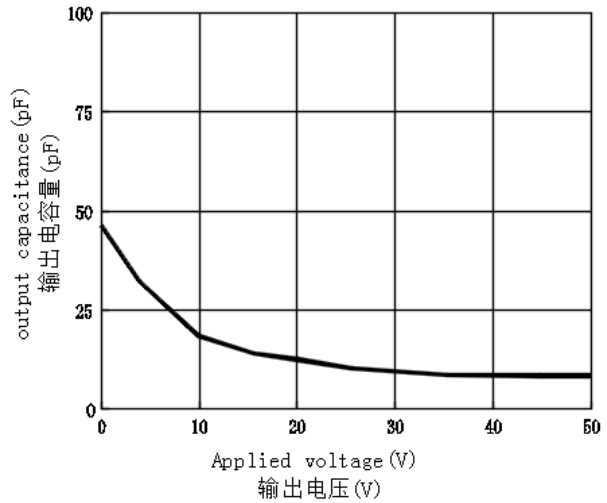
LED forward current Vs. turn on time characteristics  
LED正向(工作)电流-导通时间曲线



LED forward current Vs. Turn off time characteristics  
LED正向(工作)电流-关断时间曲线



Applied voltage Vs. output capacitance characteristics  
输出电压-输出电容量曲线



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