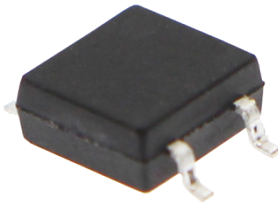
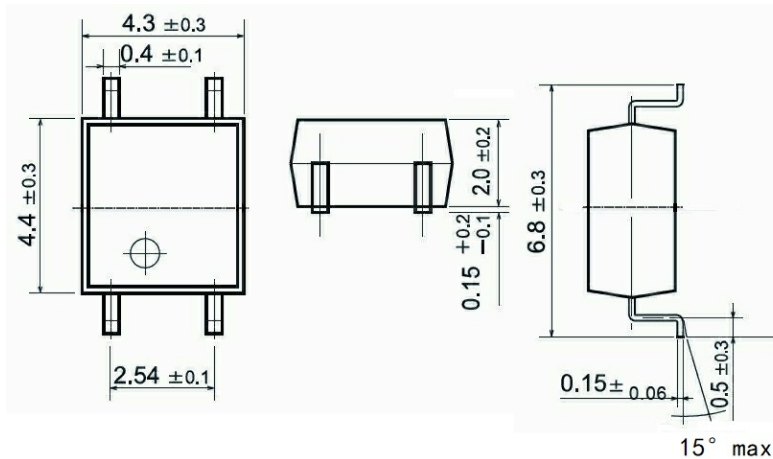
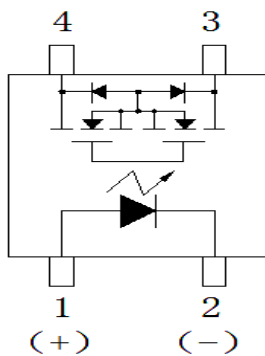


产品图片	Features 产品特性	Application 应用
 <p>SOP4</p>	<ul style="list-style-type: none"> <li>● Contact Form 触点形式 1a</li> <li>● Load Voltage 输出电压 400V</li> <li>● Operation LED Current 二极管导通电流 3.0mA</li> <li>● Load Current 输出电流 100mA</li> <li>● On-Resistance 导通电阻 21Ω</li> <li>● Output Capacitance 输出电容 52pF</li> <li>● Low Off-State Leakage Current 漏电流 1.0μA</li> </ul>	<ul style="list-style-type: none"> <li>● Electric Vehicle 新能源电动汽车</li> <li>● Automatic Test Equipment 自动检测设备</li> <li>● Security Equipment 安全设备</li> <li>● Sensing Equipment 传感设备</li> <li>● Telephone Equipment 通信设备</li> <li>● I/O Modules I/O 模块</li> <li>● Modem 调制解调器</li> </ul>

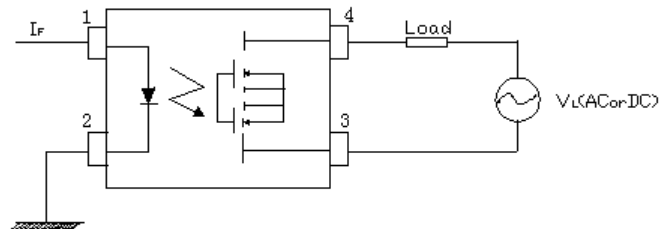
### Dimensions 外形尺寸



### Terminal Identification 引脚标识



### Wiring Diagram 接线图





# BCY214S1 型光 MOS 继电器

## 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		$T_{OPR}$	-40°C~+85°C
Storage Temperature 储存温度		$T_{STG}$	-40°C~100°C
Input 输入	Continuous LED Current 工作电流	$I_F$	50mA
	Peak LED Current LED 峰值电流 (f=100Hz, Duty=1%)	$I_{FP}$	500mA
	LED Reverse Voltage 反向电压	$V_R$	5V
	Input Power Dissipation 输入功耗	$P_{IN}$	75mW
Output 输出	Load Voltage 输出电压	$V_L$	400V (AC peak or DC)
	Load Current 输出电流	$I_L$	100mA
	Peak Load Current 峰值输出电流 ((1ms, 1 shot)	$I_{PEAK}$	600mA
	Output Power Dissipation 输出功耗	$P_{OUT}$	300mW
Total Power Dissipation 总功耗		$P_T$	350mW
I/O Breakdown Voltage 输入输出间隔离电压		$V_{I/O}$	1500 Vrms
I/O Breakdown Voltage 输入输出间隔离电压 (加注 H)		$V_{I/O}$	3750 Vrms

### 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	$V_F$	1.0	1.17	1.5	V	$I_F=10mA$
	Operation LED Current 接通电流	$I_{F ON}$		0.7	3.0	mA	
	Recovery LED Voltage 关断电压	$V_{FOFF}$	0.5	1.0		V	
Output 输出	On-Resistance 导通电阻	$R_{ON}$		21	24	$\Omega$	$I_F=5mA, I_L=100mA$ within 1sec.
	Off-State Leakage Current 漏电流	$I_{LEAK}$			1.0	$\mu A$	$V_L=400V$
	Output Capacitance 输出端容量	$C_{OUT}$		52		pF	$I_F=5mA,$ $V_L=Rating$
I/O 输入输出	I/O Insulation Resistance 绝缘电阻	$R_{I/O}$	$10^9$			$\Omega$	
	I/O Capacitance 隔离电容	$C_{I/O}$		1.3		pF	f=1MHz
Time arameters 时间参数	Turn-On Time 接通时间	$T_{ON}$		0.2	0.5	ms	$I_F=5mA,$ $I_L=Rating$
	Turn-Off Time 关断时间	$T_{OFF}$		0.05	0.2	ms	

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邮政编码: 721300

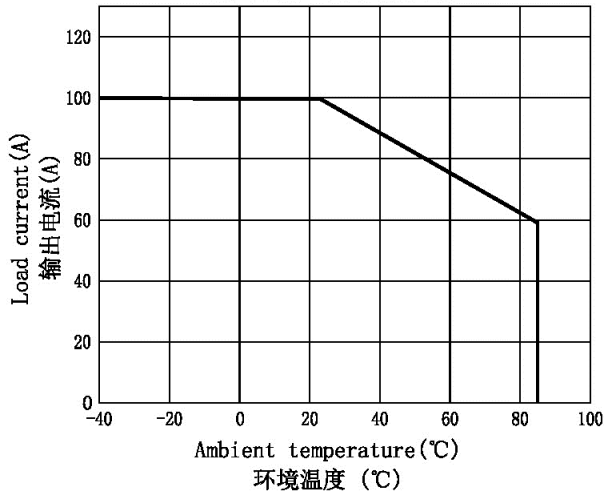
电 话: (0917)-6293969 (0917)-6293785

传 真: (0917)-6293969

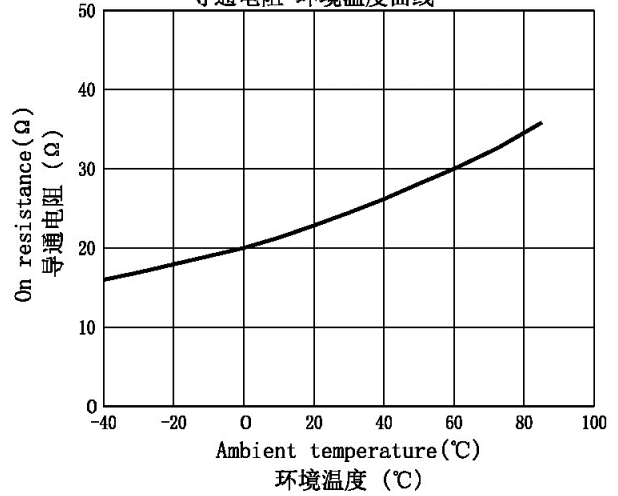


## Reference Data 曲线图

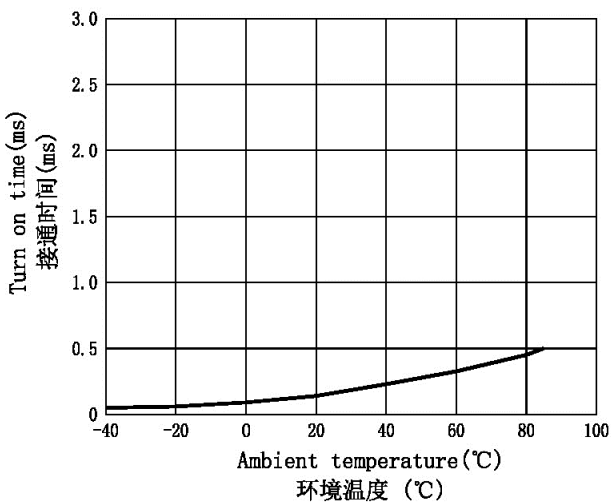
Load current Vs. Ambient temperature  
输出电流-环境温度曲线



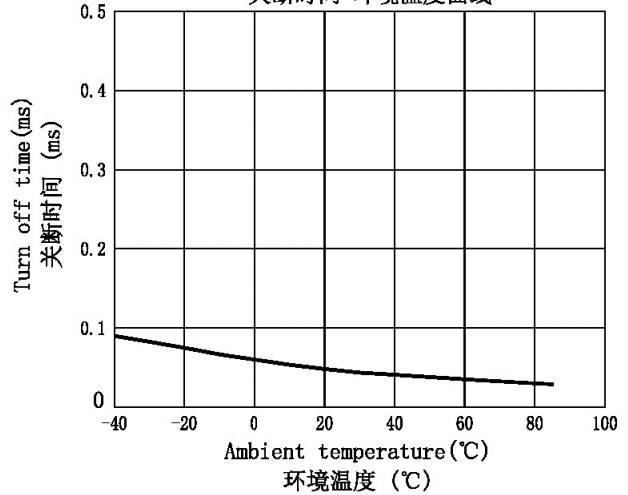
On resistance Vs. Ambient temperature  
导通电阻-环境温度曲线



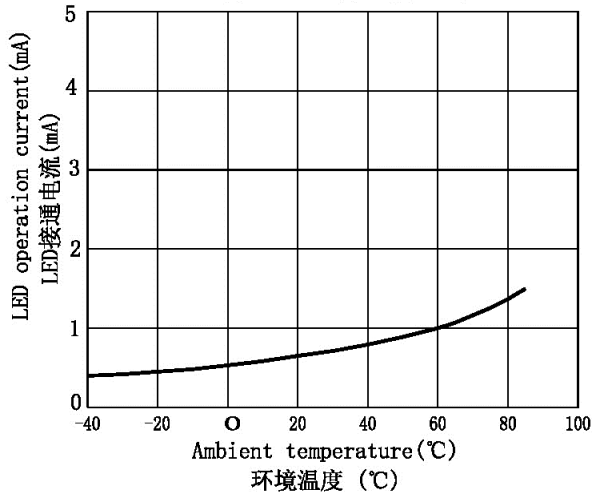
Turn on time Vs. Ambient temperature  
接通时间-环境温度曲线



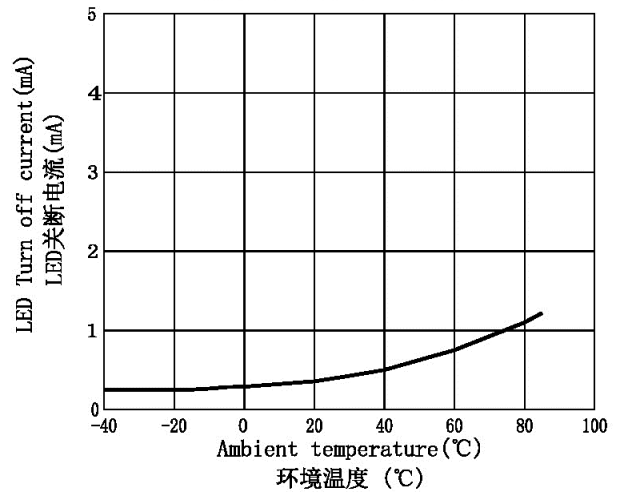
Turn off time Vs. Ambient temperature  
关断时间-环境温度曲线



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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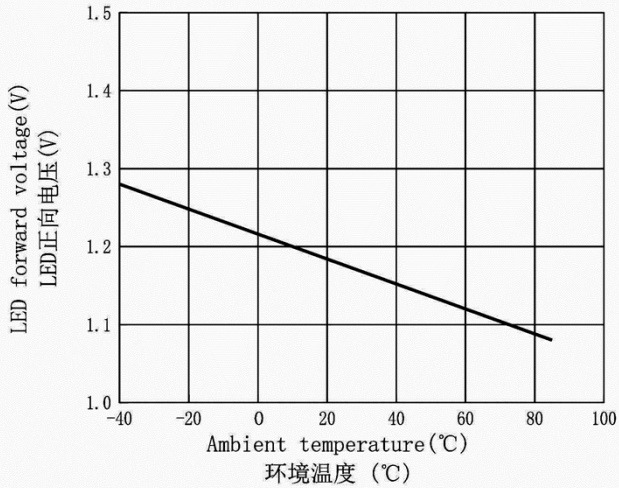
电话: (0917)-6293969 (0917)-6293785

传真: (0917)-6293969

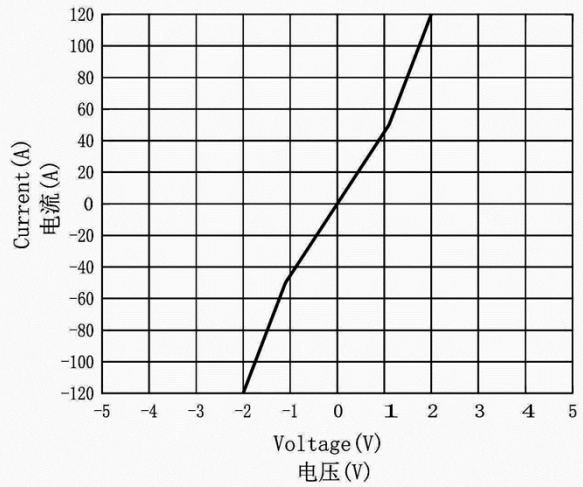


# BCY214S1 型光 MOS 继电器

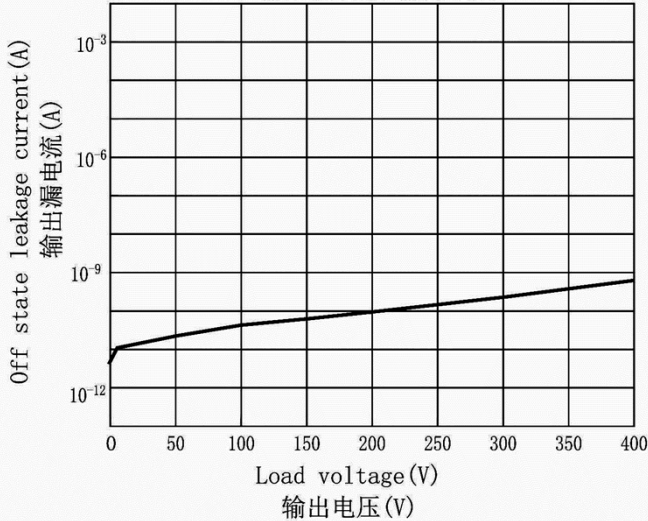
LED forward voltage Vs. Ambient temperature  
LED正向电压-环境温度曲线



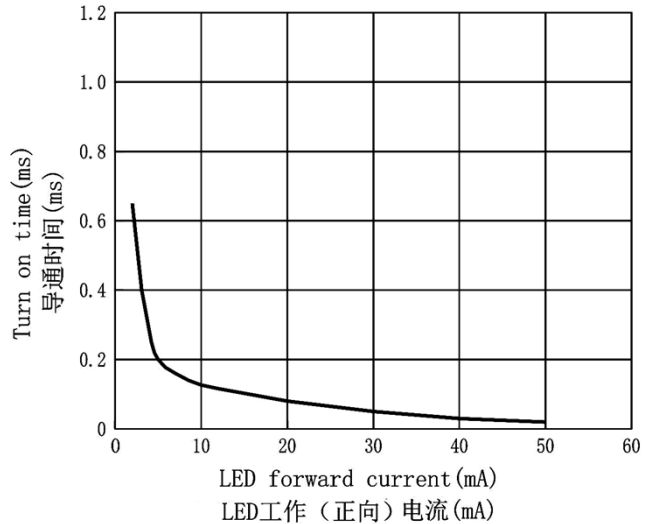
Voltage Vs. current characteristics of output at MOS portion  
MOS管输出电压-输出电流曲线



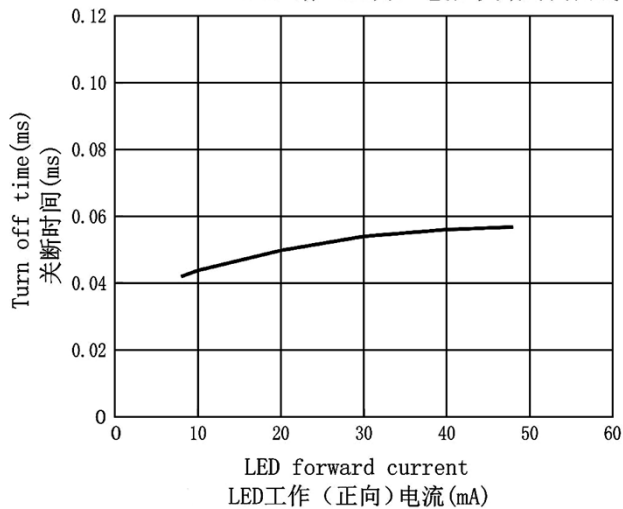
Off state leakage current Vs. Load voltage  
输出漏电流-输出电压



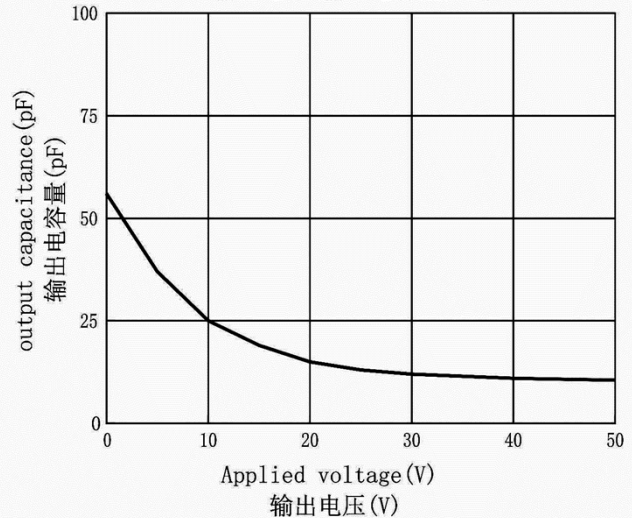
LED forward current Vs. turn on time characteristics  
LED工作 (正向) 电流-导通时间曲线



LED forward current Vs. Turn off time characteristics  
LED工作 (正向) 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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