
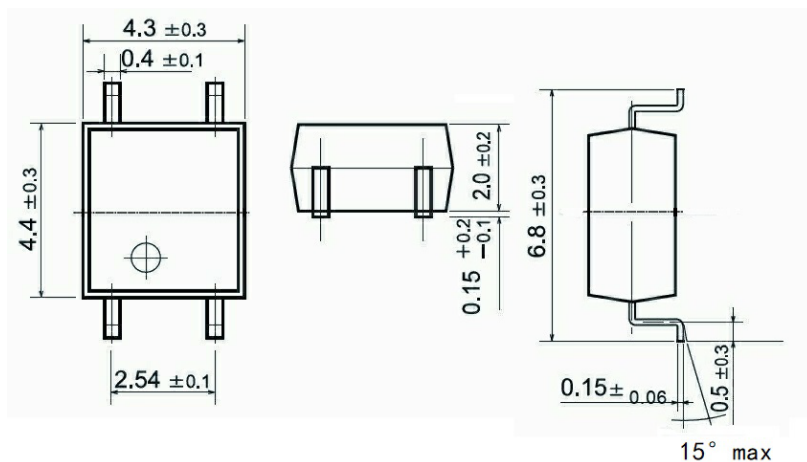


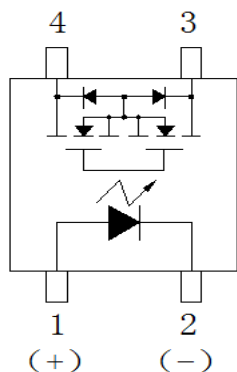
BCY212S 型光 MOS 继电器

产品图片	Features 产品特性	Application 应用
 <p>SOP4</p>	<ul style="list-style-type: none"> ● Contact Form 触点形式 1a ● Load Voltage 输出电压 60V ● Load Current 输出电流 500mA ● Operation LED Current 二极管导通电流 3.0mA ● On-Resistance 导通电阻 0.75Ω ● Output Capacitance 输出电容 45pF ● Low Off-State Leakage Current 漏电流 $1.0 \mu\text{A}$ 	<ul style="list-style-type: none"> ● Electric Vehicle 新能源电动汽车 ● Automatic Test Equipment 自动检测设备 ● Telephone Equipment 通信设备 ● Sensing Equipment 传感设备 ● Security Equipment 安全设备 ● I/O Modules I/O 模块 ● Modem 调制解调器

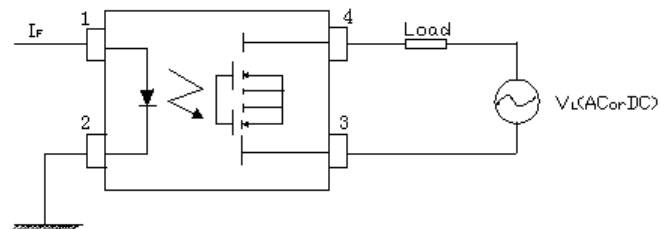
Dimensions 外形尺寸



Terminal Identification 引脚标识



Wiring Diagram 接线图



通讯地址: 深圳市宝安区外贸工业园 6 栋 3 楼

联系人: 蒋生

电话: 13554924172

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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	60V (AC peak or DC)
	Load Current 输出电流	I _L	500mA
	Peak Load Current 峰值输出电流 ((1ms, 1 shot)	I _{PEAK}	2000mA
	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}	1500Vrms
I/O Breakdown Voltage 输入输出间隔离电压 (加注 H)		V _{I/O}	3750Vrms

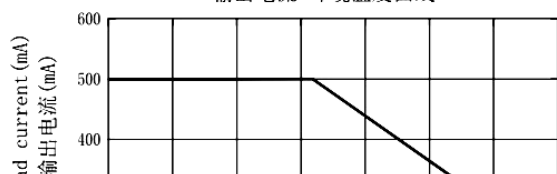
Electrical Specifications 输入输出电气参数

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}		0.9	3.0	mA	
	Recovery LED Voltage 关断电压	V _{F OFF}	0.5	1.0		V	
Output 输出	On-Resistance 导通电阻	R _{ON}		0.75	1.6	Ω	I _F =5mA, I _L =Rating within 1sec.
	Off-State Leakage Current 漏电流	I _{LEAK}			1.0	μA	V _L =60V
	Output Capacitance 输出端容量	C _{OUT}		45		pF	V _L =0V, f=1MHz
Time parameters 时间参数	Turn-On Time 接通时间	T _{ON}		0.2	1.0	ms	I _F =5mA I _L =Rating
	Turn-Off Time 关断时间	T _{OFF}		0.05	0.2	ms	
I/O 输入输出	I/O Insulation Resistance 绝缘电阻	R _{I/O}	10 ⁹			Ω	
	I/O Capacitance 隔离电容	C _{I/O}		1.3		pF	f=1MHz

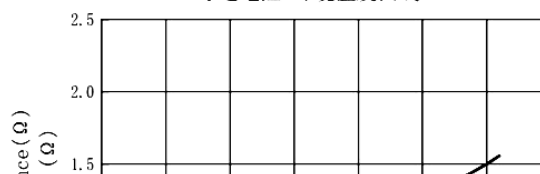
Reference Data 曲线图

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

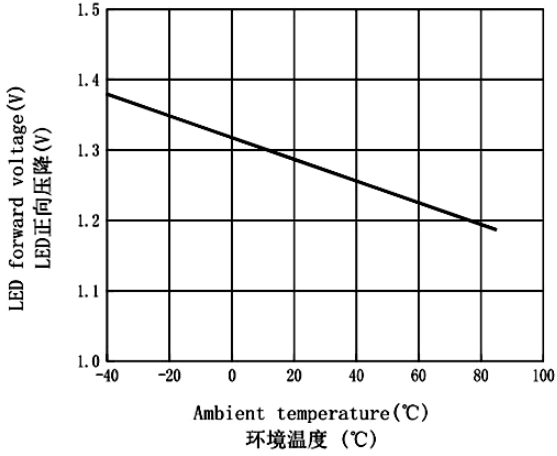


On resistance Vs. Ambient temperature
导通电阻-环境温度曲线

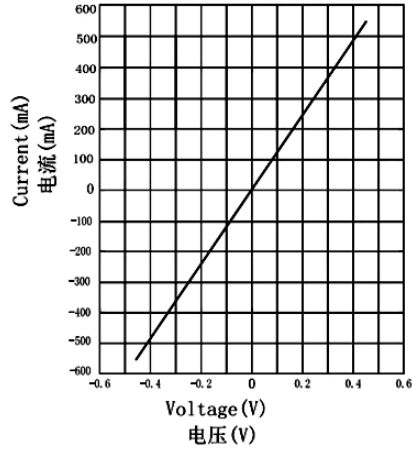


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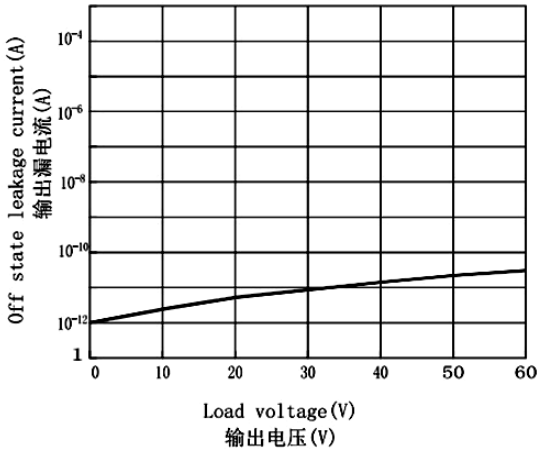
LED forward voltage Vs. Ambient temperature
LED正向电压-环境温度曲线



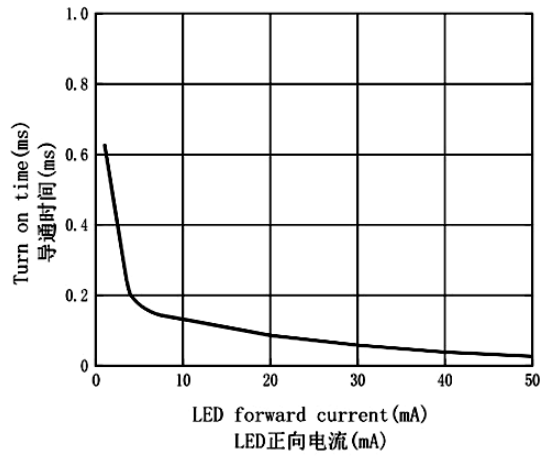
Voltage Vs. current characteristics of output at MOS portion
MOS管输出电压-输出电流曲线



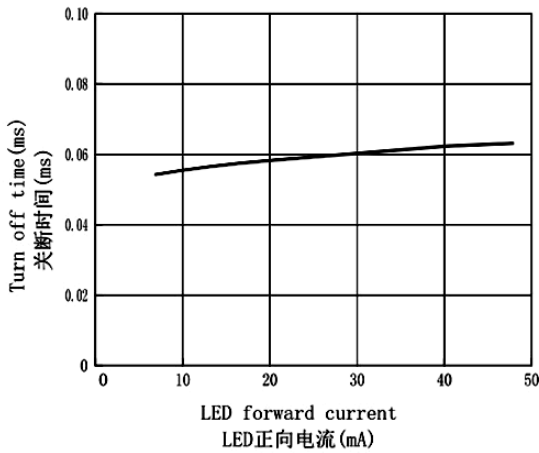
Off state leakage current Vs. Load voltage characteristics
输出漏电流-输出电压曲线



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

