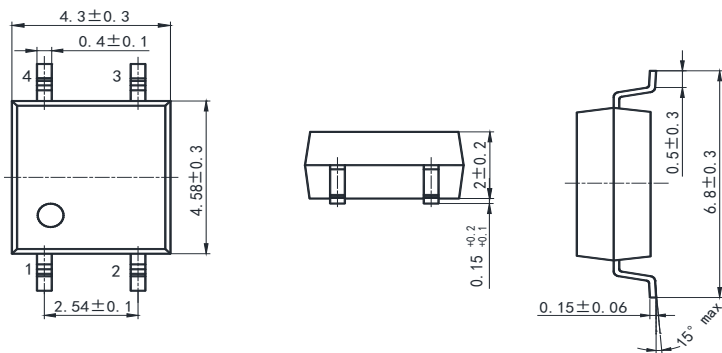


产品图片	Features 产品特性	Application 应用
 SOP4	●Contact Form 触点形式 1a ●Load Voltage 输出电压 400V ●Load Current 输出电流 120mA ●Low Off-State Leakage Current 漏电流 1μA	●Automatic Test Equipment 自动检测设备 ●Telephone Equipment 通信设备 ●Sensing Equipment 传感设备 ●Security Equipment 安全设备 ●I/O Modules I/O 模块 ●Modem 调制解调器

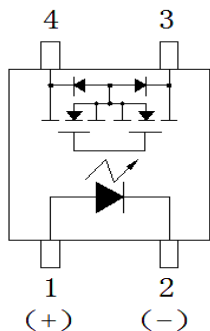
Type 种类

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		
400V	120mA	BCY214S	BCY214S

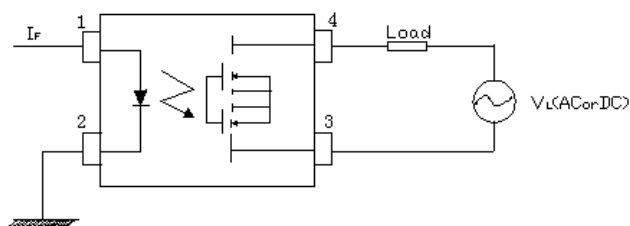
Dimensions 外形尺寸



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	BCY214S
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	MAX. 最大值	I _F	50mA
	Peak LED Current LED 峰值电流 (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 输出	Load Voltage 输出电压	MAX. 最大值	V _L	400V (AC peak or DC)
	Load Current 输出电流	MAX. 最大值	I _L	120mA
	Peak Load Current 峰值输出电流 (100ms, 1shot)	MAX. 最大值	I _{PEAK}	600mA
	Output Power Dissipation 输出功耗	MAX. 最大值	P _{OUT}	300mW
Total Power Dissipation 总功耗		MAX. 最大值	P _T	350mW
I/O Breakdown Voltage 输入输出间隔离电压		MAX. 最大值	V _{I/O}	1500Vrms
I/O Breakdown Voltage 输入输出间隔离电压 (加注 H)		MAX. 最大值	V _{I/O}	3750Vrms

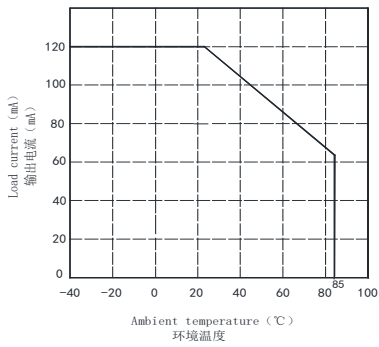
Electrical Specifications 输入输出电气参数

Item 项目			Symbol 符号	BCY214S	Conditions 条件
Input 输入	LED Forward Voltage 正向电压	TYP. 典型值	V _F	1.3V	I _F =10mA
		MAX. 最大值		1.5V	
	Operation LED Current 接通电流	TYP. 典型值	I _{F ON}	0.5mA	
		MAX. 最大值		1mA	
	Recovery LED Voltage 关断电压	MIN. 最小值	V _{F OFF}	0.7V	
Output 输出	On-Resistance 导通电阻	TYP. 典型值	R _{ON}	14Ω	I _F =5mA, I _L =Rating. within 1 sec.
		MAX. 最大值		28Ω	
	Off-State Leakage Current 漏电流	MAX. 最大值	I _{LEAK}	1μA	V _L =Rating
Timeparameters 时间参数	Turn-On Time 接通时间	TYP. 典型值	T _{ON}	0.23ms	I _F =5mA, I _L =100mA
		MAX. 最大值		1ms	
	Turn-Off Time 关断时间	TYP. 典型值	T _{OFF}	0.03ms	
		MAX. 最大值		0.2ms	
I/O 输入输出	I/O Insulation Resistance 绝缘电阻	MIN. 最小值	R _{I/O}	1000MΩ	500VDC
	I/O Capacitance 隔离电容	TYP. 典型值	C _{I/O}	1.8pF	f=1MHz

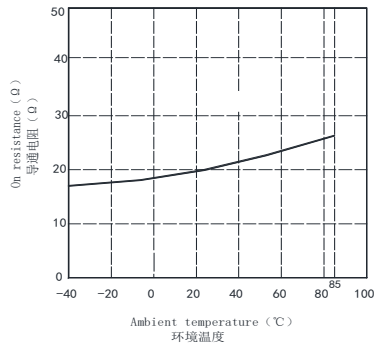


Reference Data 参考数值 (BCY214S)

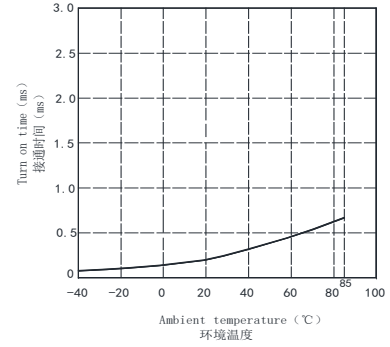
Load current Vs. Ambient temperature
输出电流-环境温度曲线



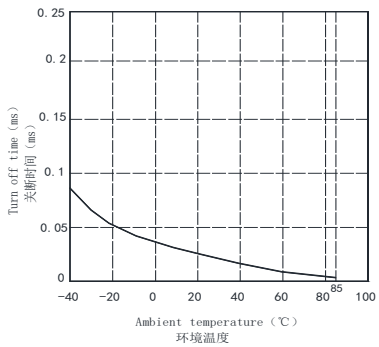
On resistance Vs. Ambient temperature
导通电阻-环境温度曲线



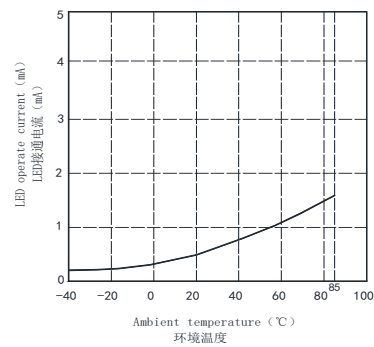
Turn on time Vs. Ambient temperature
接通时间-环境温度曲线



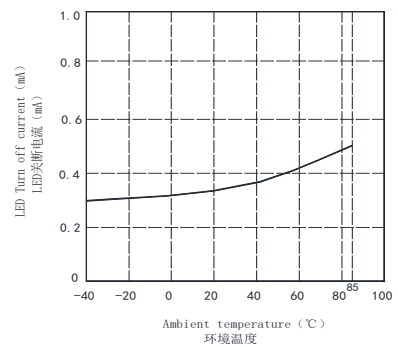
Turn off time Vs. Ambient temperature
关断时间-环境温度曲线



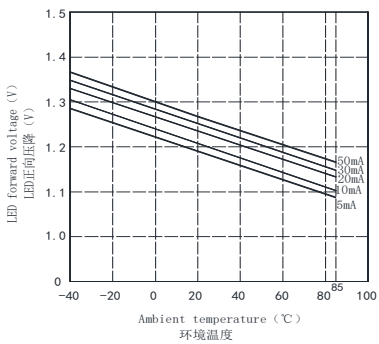
LED operate current Vs. Ambient temperature
接通电流-环境温度曲线



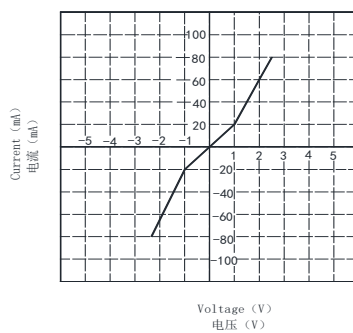
LED turn off current Vs. Ambient temperature
关断电流-环境温度曲线



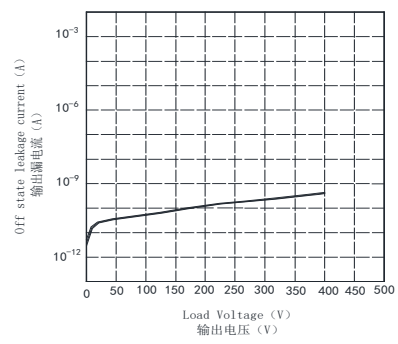
LED forward voltage Vs. Ambient temperature
LED正向电压-环境温度曲线



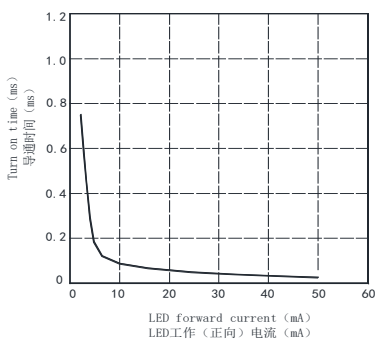
Voltage Vs. current characteristics of output at MOS portion
MOS管输出电压-输出电流曲线



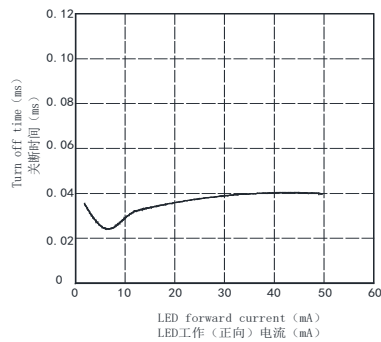
Off state leakage current Vs. Load voltage characteristics
输出漏电流-输出电压曲线



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-输出电容曲线

