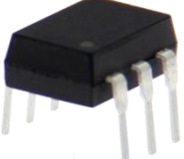





# BCV414型光MOS继电器

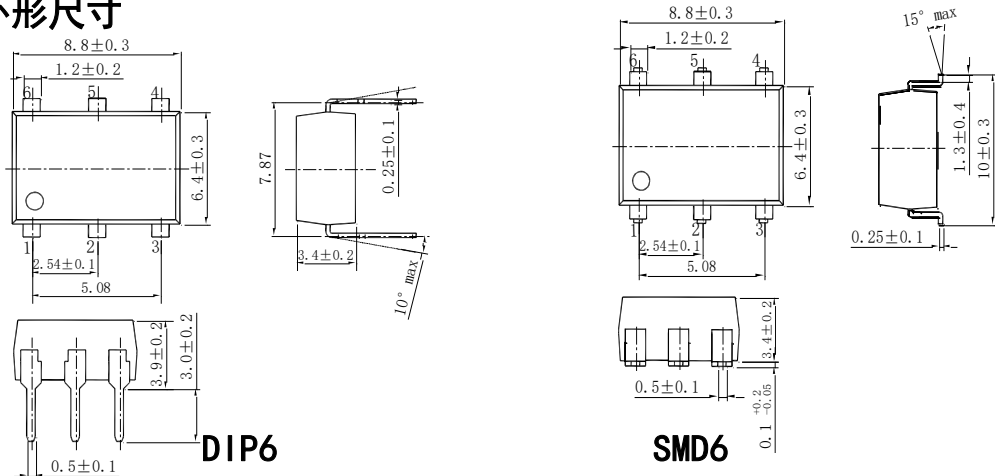
产品图片	Features产品特性	Application应用
 <b>DIP6</b>	<ul style="list-style-type: none"> <li>●Contact Form 触点形式 1b</li> <li>●Load Voltage 输出电压 400V</li> <li>●Load Current 输出电流 120mA</li> <li>●Low Off-State Leakage Current 漏电流 10 μA</li> </ul>	<ul style="list-style-type: none"> <li>●Automatic Test Equipment 自动检测设备</li> <li>●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>
 <b>SMD6</b>		

## Type 种类

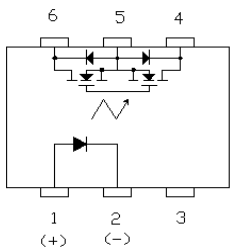
Output rating输出额定		Marking model标 刻型号	Part No. 订货型号	
Load voltage 负载电压	Load current 负载电流		DIP 双列直插	SMD 表面贴装
400V	0.12A	BCV414	BCV414	BCV414A

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。

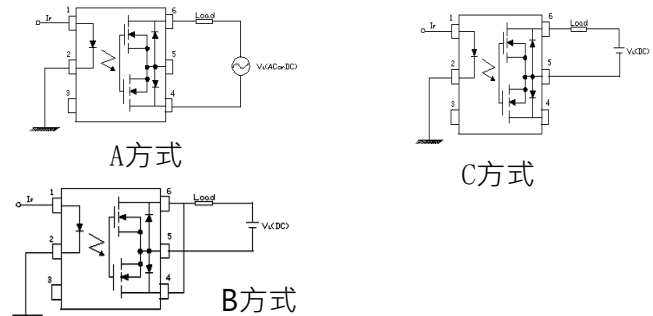
## Dimensions外形尺寸



## Terminal Identification引脚标识



## Wiring Diagram 接线图



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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



# BCV414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	$I_L$	120mA
	Peak Load Current 峰值输出电流 (1ms, 1 shot)	$I_{PEAK}$	0.3A
	Output Power Dissipation 输出功耗	$P_{OUT}$	500mW
Total Power Dissipation 总功耗		$P_T$	550mW
I/O Breakdown Voltage 输入输出间隔离电压 (RH=10%, 1 min)		$V_{I/O}$	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	$V_F$		1.2	1.4	V	$I_F=10mA$
	Operation LED Current 接通电流	$I_{F ON}$		0.5	3.0	mA	
	Recovery LED Voltage 关断电压	$V_{F OFF}$	0.5			V	
Output 输出	On-Resistance 导通电阻	$R_{ON}$		20	50	$\Omega$	$I_F=0mA, I_L=50mA$ within 1sec.
	Off-State Leakage Current 漏电流	$I_{LEAK}$			10	$\mu A$	$I_F=5mA, V_L=400V$
	Output Capacitance 输出端容量	$C_{OUT}$		165		pF	$I_F=5mA, V_L=0V,$ f=1MHz
Time parameters 时间参数	Turn-On Time 接通时间	$T_{ON}$		0.02	1.0	ms	$I_F=5mA$ $I_L=50mA$
	Turn-Off Time 关断时间	$T_{OFF}$		0.5	3.0	ms	
I/O 输入输出	I/O Insulation Resistance 绝缘电阻	$R_{I/O}$	$10^{10}$			$\Omega$	500VDC
	I/O Capacitance 隔离电容	$C_{I/O}$		0.8		pF	f=1MHz

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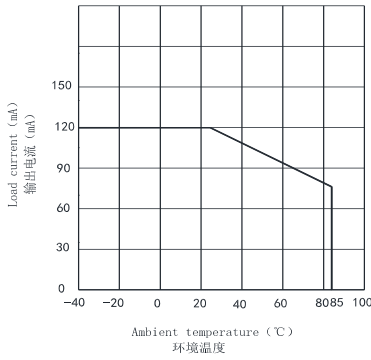
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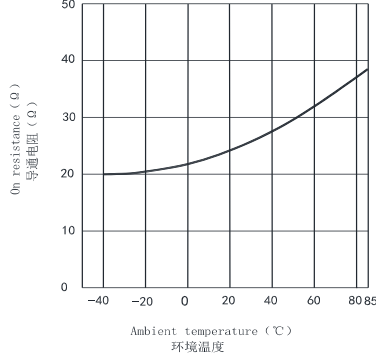
# BCV414型光MOS继电器

## Reference Data 参考数值 (BCV414)

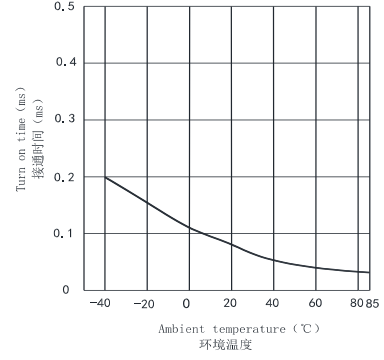
Load current Vs. Ambient temperature  
输出电流-环境温度曲线



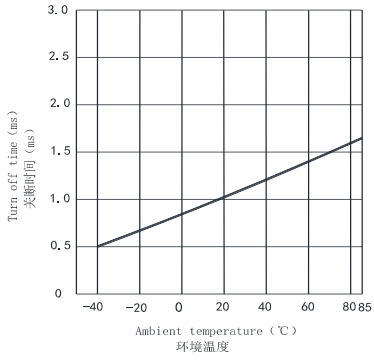
On resistance Vs. Ambient temperature  
导通电阻-环境温度曲线



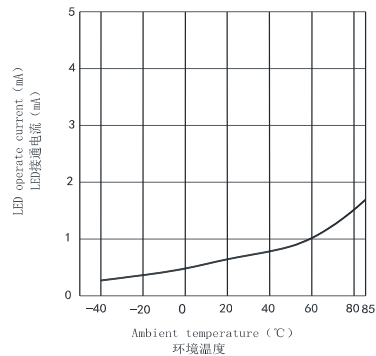
Turn on time Vs. Ambient temperature  
接通时间-环境温度曲线



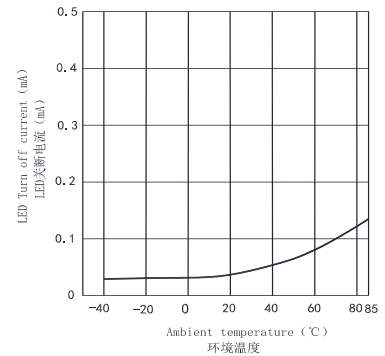
Turn off time Vs. Ambient temperature  
关断时间-环境温度曲线



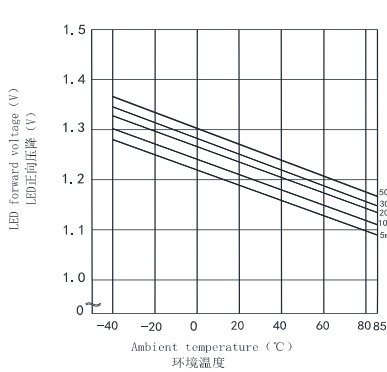
LED operate current Vs. Ambient temperature  
接通电流-环境温度曲线



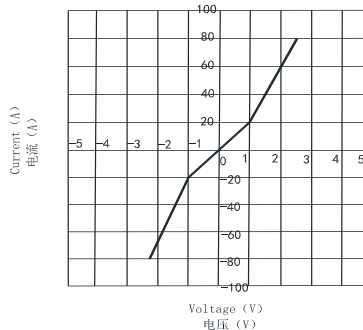
LED turn off current Vs. Ambient temperature  
关断电流-环境温度曲线



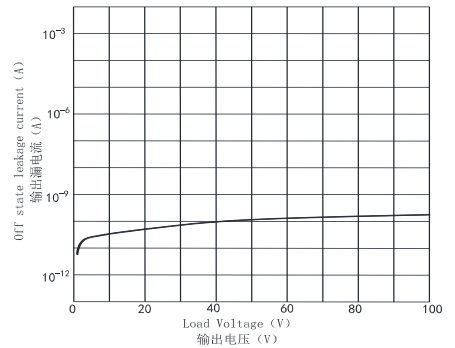
LED forward voltage Vs. Ambient temperature  
LED正向电压-环境温度曲线



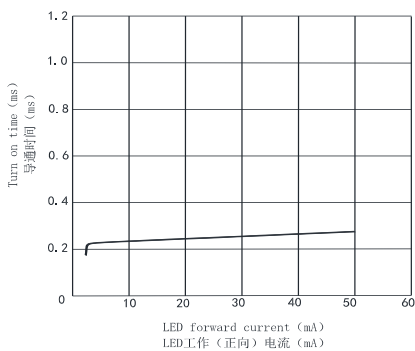
Voltage Vs. current characteristics of output at MOS portion  
MOS管输出电压-输出电流曲线



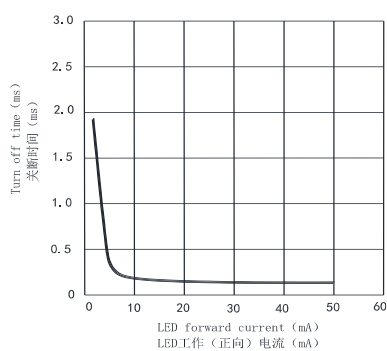
Off state leakage current Vs. Load voltage characteristics  
输出漏电流-输出电压曲线



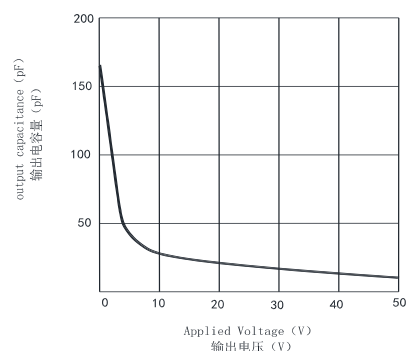
LED forward current Vs. turn on time characteristics  
LED正向(工作)电流-导通时间曲线



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



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