



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		
60V	1. 1A	BCW212GS	BCW212GS

Technical drawing of a rectangular plate with dimensions and mounting holes. The drawing includes three views: a top view, a side view, and a cross-sectional view.

Top View Dimensions:

- Overall width: 9.4 ± 0.3
- Overall height: 4.58 ± 0.3
- Distance between mounting holes (center-to-center): 2.54 ± 0.1
- Distance from edge to mounting hole center: 0.4 ± 0.1
- Overall length: 7.62

Side View Dimensions:

- Overall height: 2 ± 0.2
- Distance from edge to mounting hole center: $0.15^{+0.2}_{+0.1}$

Cross-sectional View Dimensions:

- Overall height: 6.8 ± 0.4
- Distance from edge to mounting hole center: 0.15 ± 0.06
- Angle: 45° max

The diagram shows a full-bridge rectifier circuit. The top rail has terminals 8, 7, 6, and 5 from left to right. The bottom rail has terminals 1, 2, 3, and 4 from left to right. Below the bottom rail, the terminals are labeled (+), (-), (+), and (-) respectively. The circuit contains two thyristors (top half-bridge) and two diodes (bottom half-bridge). The thyristors have their cathodes connected to the top rail and their anodes connected to the bottom rail. The diodes have their anodes connected to the top rail and their cathodes connected to the bottom rail. The thyristors are connected to terminals 8, 7, 6, and 5. The diodes are connected to terminals 1, 2, 3, and 4. The thyristors are labeled with a 'T' and the diodes with a 'D'.



BCW212GS 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}	1000mA
	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	1.1A
	Peak Load Current 峰值输出电流 ((100ms, 1 shot)	I _{PEAK}	4.0A
	Output Power Dissipation 输出功耗	P _{OUT}	600mW
Total Allowable Power Dissipation 总允许功耗		P _T	650mW
I/O Breakdown Voltage 输入输出间隔离电压 (RH=60%, 1min)		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		1.3	1.5	V	I _F =10mA
	Operation LED Current 接通电流	I _{F ON}		0.8	2.0	mA	
	Recovery LED Voltage 关断电压	V _{FOFF}	0.7			V	
Output 输出	On-Resistance 导通电阻	R _{ON}		0.15	0.5	Ω	I _F =5mA, I _L =Rating, within 1sec.
	Off-State Leakage Current 漏电流	I _{LEAK}			1.0	μA	V _L =Rating
	Output Capacitance 输出端容量	C _{OUT}		220		pF	V _L =0V, f=1MHz
Time arameters 时间参数	Turn-On Time 接通时间	T _{ON}		0.8	1.3	ms	I _F =5mA, I _L =100mA
	Turn-Off Time 关断时间	T _{OFF}		0.03	0.3	ms	
I/O 输入输出	I/O Insulation Resistance 绝缘电阻	R _{I/O}	1000			MΩ	DC=500V
	I/O Capacitance 隔离电容	C _{I/O}		2		pF	f=1MHz