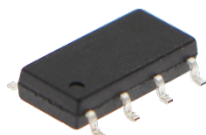


■ Product Images



SOP8

■ Features

- Contact Form: 2a
- Load Voltage: 60V
- Load Current: 500mA
- Low Off-State Leakage Current: 1.0μA

■ Application

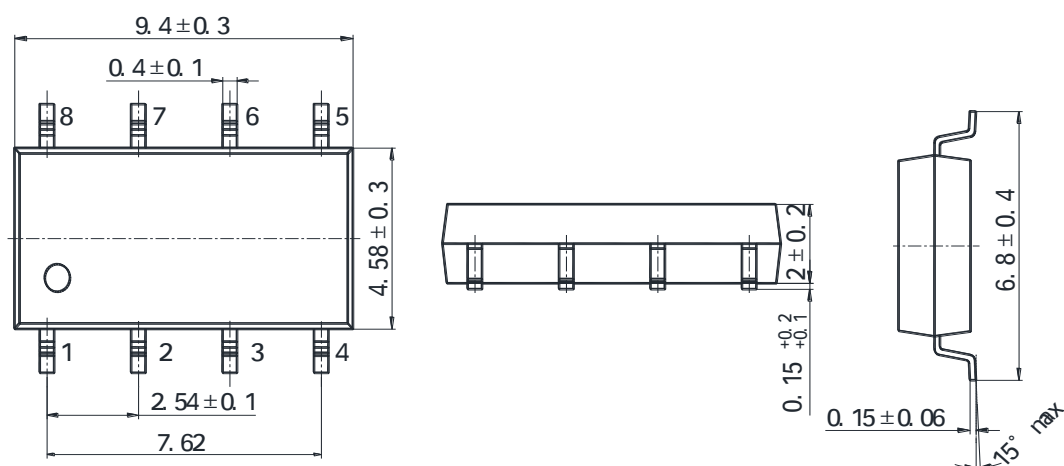
- Automatic Test Equipment
- Telephone Equipment
- Sensing Equipment
- Security Equipment
- I/O Modules
- Modem

■ Types

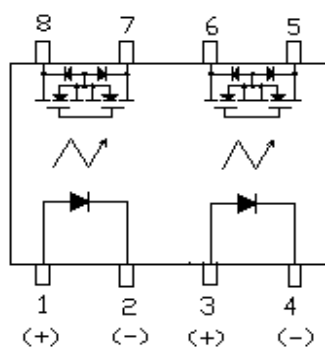
Output Rating		Marking model	Part Number
Load voltage	Load current		SMD
60V	500mA	MJW412S	MJW412S

Note: The "A" indicating the pin type is not marked on the product. Please refer to the ordering example model number when placing an order.

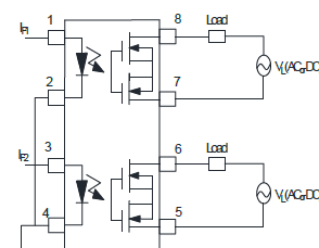
■ Dimensions



■ Terminal Identification



■ Wiring Diagram



[Technical parameters (Ambient Temperature 25°C)]

■ I/O Absolute Maximum Ratings

Item			Symbol	BCW412S
Operating Temperature			T _{OPR}	-40°C ~ +85°C
Storage Temperature			T _{STG}	-40°C ~ +100°C
Input	Continuous LED Current	MAX.	I _F	50mA
	Peak LED Current LED (f=100Hz,Duty=1%)	MAX.	I _{FP}	1000mA
	LED Reverse Voltage	MAX.	V _R	5V
	Input Power Dissipation	MAX.	P _{IN}	75mW
Output	Load Voltage	MAX.	V _L	60V(AC peak or DC)
	Load Current	MAX.	I _L	500mA
	Peak Load Current (1ms,1shot)	MAX.	I _{PEAK}	600mA
	Output Power Dissipation	MAX.	P _{OUT}	600mW
Total Allowable Power Dissipation		MAX.	P _T	650mW
I/O Breakdown Voltage		MAX.	V _{I/O}	1500Vrms
I/O Breakdown Voltage (Add H)		MAX.	V _{I/O}	3750Vrms

■ Electrical Specifications

Item			Symbol	BCW412S	Conditions
Input	LED Forward Voltage	TYP.	V _F	1.3V	I _F =10mA
		MAX.		1.5V	
	Operation LED Current	TYP.	I _{F OFF}	0.5mA	
		MAX.		3mA	
	Recovery LED Voltage	MIN.	V _{F OFF}	0.5V	
Output	On-Resistance	TYP.	R _{ON}	2Ω	I _F =0mA,I _L = Rating, within 1 sec.
		MAX.		4Ω	
	Off-State Leakage Current	MAX.	I _{LEAK}	1μA	I _F =5mA,V _L =Rating
Time parameter	Turn-On Time	TYP.	T _{ON}	0.25ms	I _F =5mA I _L =100mA
		MAX.		1.0ms	
	Turn-Off Time	TYP.	T _{OFF}	0.5ms	
		MAX.		2.0ms	
I/O	I/O Insulation Resistance	MIN.	R _{I/O}	1000MΩ	DC500V
	I/O Capacitance	TYP.	C _{I/O}	0.8pF	f=1MHz