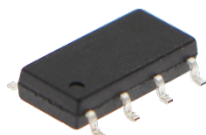


■ Product Images



SOP8

■ Features

- Contact Form: 1a / 1b
- Load Voltage: 60V
- Load Current: 500mA
- Low Off-State Leakage Current: 10 μ A

■ Application

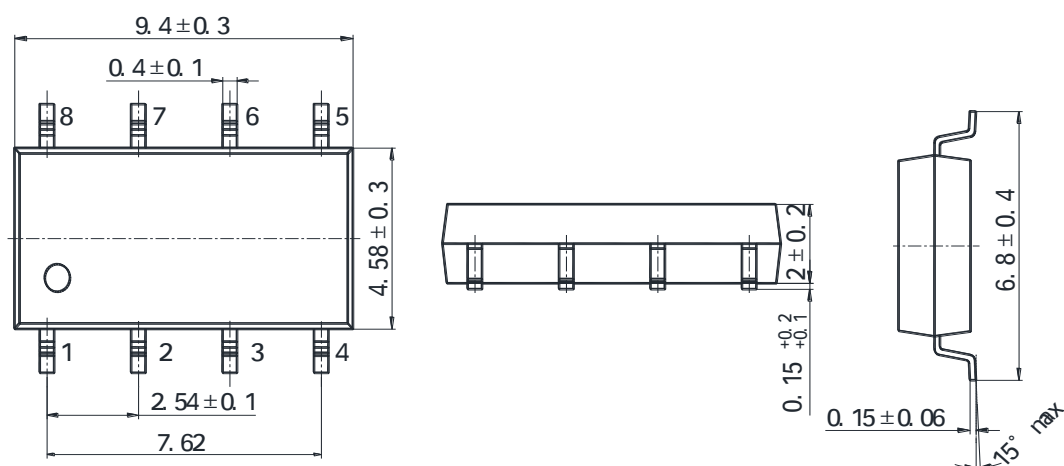
- Automatic Test Equipment
- Telephone Equipment
- Sensing Equipment
- Security Equipment
- I/O Modules
- Modem

■ Types

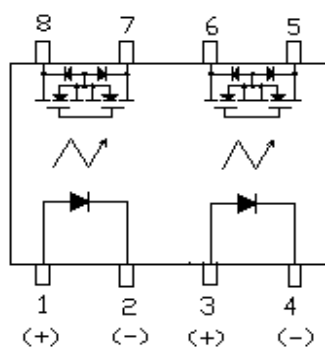
Output Rating		Marking model	Part Number
Load voltage	Load current		SMD
60V	500mA	MJW612S	MJW612S

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.

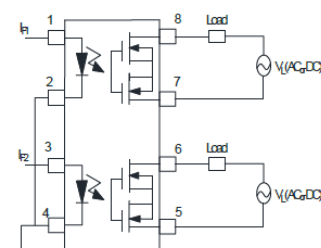
■ Dimensions



■ Terminal Identification



■ Wiring Diagram



[Technical parameters (Ambient Temperature 25°C)]

■ I/O Absolute Maximum Ratings

Item		Symbol	BCW612S
Operating Temperature		T _{OPR}	-40°C ~ +85°C
Storage Temperature		T _{STG}	-40°C ~ 100°C
Input	Continuous LED Current	I _F	50mA
	Peak LED Current LED (f=100Hz,Duty=1%)	I _{FP}	1000mA
	LED Reverse Voltage	V _R	5V
	Input Power Dissipation	P _{IN}	75mW
Output	Load Voltage	V _L	60V (AC peak or DC)
	Load Current	I _L	500mA
	Peak Load Current ((1ms,1 shot)	I _{PEAK}	1000mA
	Output Power Dissipation	P _{OUT}	600mW
Total Allowable Power Dissipation		P _T	650mW
I/O Breakdown Voltage (RH=60%,1min)		V _{I/O}	1500Vrms
I/O Breakdown Voltage (RH=60%,1min) (Add H)		V _{I/O}	3750Vrms

■ Electrical Specifications

Item			Symbol	BCW612S	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.		3.0mA	
	Recovery LED Voltage	MIN.	V _{F OFF}	0.5V	
Output	On-Resistance	TYP.	R _{ON}	1 (N.O.) 2.3 (N.C.) Ω	I _F =5mA(N.O.) I _F =0mA(N.C.) I _L =Rating within 1sec.
		MAX.		1.4 (N.O.) 4.0 (N.C.) Ω	
	Off-State Leakage Current	MAX.	I _{LEAK}	1μA (N.O.) 10μA (N.C.)	I _F =0mA(N.O.) I _F =5mA(N.C.) V _L =Rating
	Output Capacitance	TYP.	C _{OUT}	165pF	I _F =5mA,V _L =0V, f=1MHz
Time parameter	Turn-On Time	TYP.	T _{ON} (N0)	0.23 (N.O.)0.2 (N.C.)ms	I _F =5mA,I _L =50mA
		MAX.	T _{OFF} (NC)	0.5 (N.O.) 1 (N.C.)ms	
	Turn-Off Time	TYP.	T _{OFF} (N0)	0.03 (N.O.)0.5 (N.C.)ms	
		MAX.	T _{ON} (NC)	0.2 (N.O.) 3 (N.C.)ms	
I/O	I/O Insulation Resistance	MIN.	R _{I/O}	1000MΩ	DC500V
	I/O Capacitance	TYP.	C _{I/O}	0.8pF	f=1MHz