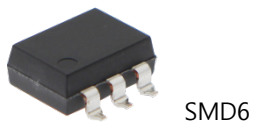
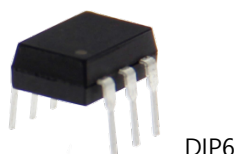


■ Product Images



■ Features

- Contact Form: 1b
- Load Voltage: 400V
- Load Current: 100mA
- Low Off-State Leakage Current: 10 μ A

■ Application

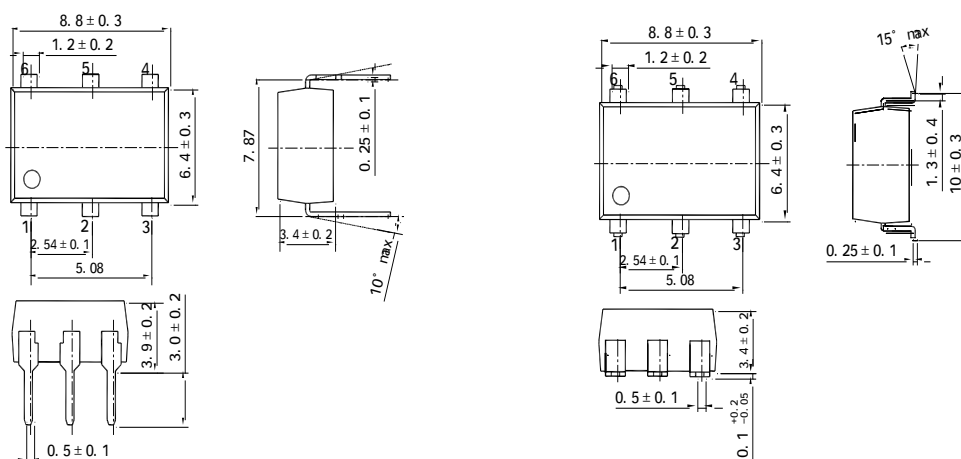
- Automatic Test Equipment
- Telephone Equipment
- Sensing Equipment
- Security Equipment
- I/O Modules
- Modem

■ Types

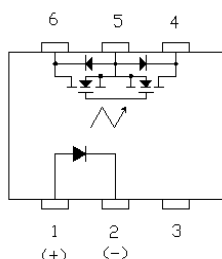
Output Rating		Marking model	Part Number	
Load voltage	Load current		DIP	SMD
400V	100mA	MJV414	MJV414	MJV414A

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.

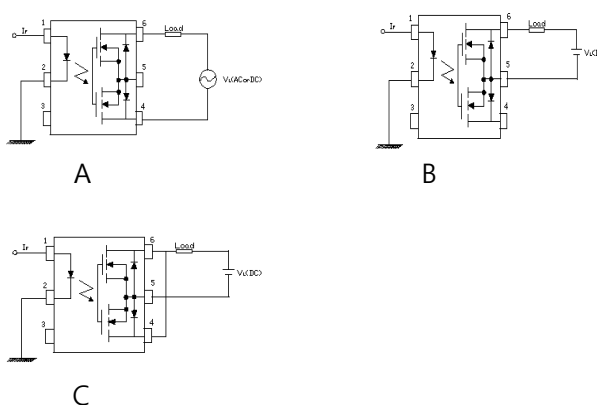
■ Dimensions



■ Terminal Identification



■ Wiring Diagram



[Technical parameters (Ambient Temperature 25°C)]

■ I/O Absolute Maximum Ratings

Item		Symbol	BCV412
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	400V (AC peak or DC)
	Load Current	I _L	100mA
	Peak Load Current (1ms,1 shot)	I _{PEAK}	300mA
	Output Power Dissipation	P _{OUT}	500mW
Total Power Dissipation		P _T	550mW
I/O Breakdown Voltage (RH=10%,1 min)		V _{I/O}	3750Vrms
I/O Breakdown Voltage (Add H)		V _{I/O}	5000Vrms

■ Electrical Specifications

Item			Symbol	BCV412	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}	20Ω	I _F =0mA,I _L = Rating, within 1 sec.
		MAX.		50Ω	
	Off-State Leakage Current	MAX.	I _{LEAK}	10μA	I _F =5mA,V _L =Rating
Time parameters	Turn-On Time	TYP.	T _{ON}	0.2ms	I _F =5mA I _L =100mA
		MAX.		1.0ms	
	Turn-Off Time	TYP.	T _{OFF}	0.5ms	
		MAX.		3.0ms	
I/O	I/O Insulation Resistance	MIN.	R _{I/O}	1000MΩ	DC500V
	I/O Capacitance	TYP.	C _{I/O}	0.8pF	f=1MHz

Characteristic curve

