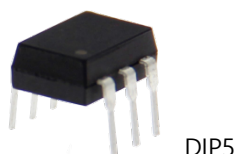


■ Product Images



■ Features

- Contact Form: 1a
- Load Voltage: 1700V
- Load Current: 30mA
- Low Off-State Leakage Current: 10 μ A

■ Application

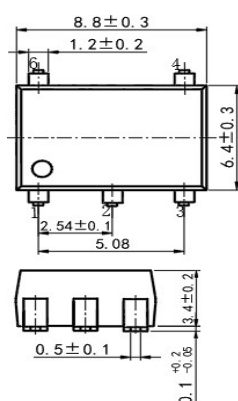
- Automatic Test Equipment
- Telephone Equipment
- Sensing Equipment
- Security Equipment
- I/O Modules
- Modem

■ Types

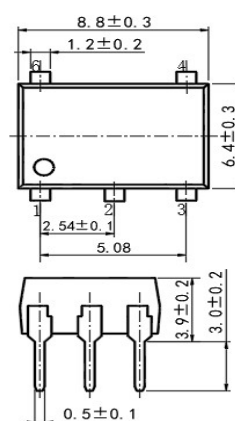
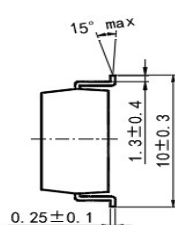
Output Rating		Marking model	Part Number	
Load voltage	Load current		DIP	SMD
1700V	30mA	MJV278	MJV278	MJV278A

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.

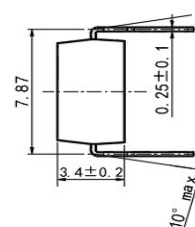
■ Dimensions



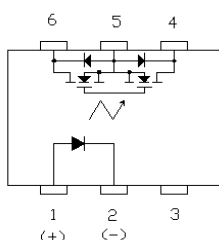
SMD5



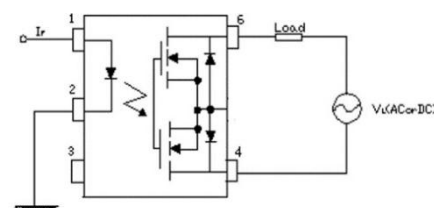
DIP5



■ Terminal Identification



■ Wiring Diagram



[Technical parameters (Ambient Temperature 25°C)]

■ I/O Absolute Maximum Ratings

Item		Symbol	BCV278
Operating Temperature		T _{OPR}	-40°C ~ +85°C
Storage Temperature		T _{STG}	-40°C ~ +100°C
Input 输入	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 输出	Load Voltage	V _L	1700V(AC peak or DC)
	Load Current	I _L	30mA
	Peak Load Current (100ms,1 shot)	I _{PEAK}	180mA
	Output Power Dissipation	P _{OUT}	450mW
Total Power Dissipation		P _T	500mW
I/O Breakdown Voltage		V _{I/O}	3750Vrms
I/O Breakdown Voltage (Add H)		V _{I/O}	5000Vrms

■ Electrical Specifications

Item			Symbol	BCV278	Conditions
Input	LED Forward Voltage	TYP.	V _F	1.3V	I _F =10mA
		MAX.		1.5V	
	Operation LED Current	TYP.	I _{F ON}	2mA	
		MAX.		5mA	
	Recovery LED Voltage	MIN.	V _{F OFF}	0.7V	
Output	On-Resistance	TYP.	R _{ON}	200Ω	I _F =10mA, I _L =Rating, within 1 sec.
		MAX.		260Ω	
	Off-State Leakage Current	MAX.	I _{LEAK}	0.1μA	V _L =Rating
	Output Capacitance	TYP.	C _{OUT}	8pF	V _L =0V,f=1MHz
Time parameters	Turn-On Time	TYP.	T _{ON}	0.15ms	I _F =10mA, I _L =Rating
		MAX.		1ms	
	Turn-Off Time	TYP.	T _{OFF}	0.05ms	
		MAX.		0.1ms	
I/O	I/O Insulation Resistance	MIN.	R _{I/O}	1000MΩ	DC500V
	I/O Capacitance	TYP.	C _{I/O}	0.8pF	f=1MHz
		MAX.		1.5pF	

Characteristic curve

