

■ Product Images



DIP7



SMD7

■ Features

- Contact Form: 1a(Zero-on/Random-on)
- Load Voltage: 110VAC/220VAC
- Load Current: 0.9A、1.2A、2A
- Low Off-State Leakage Current: 100 μ A

■ Application

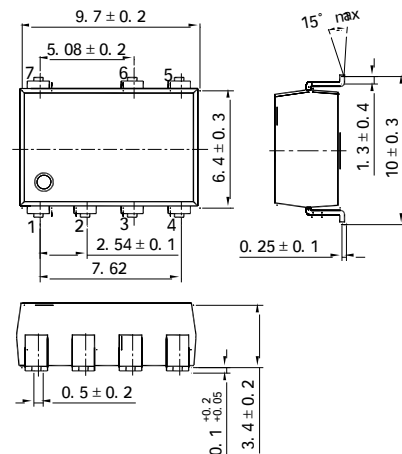
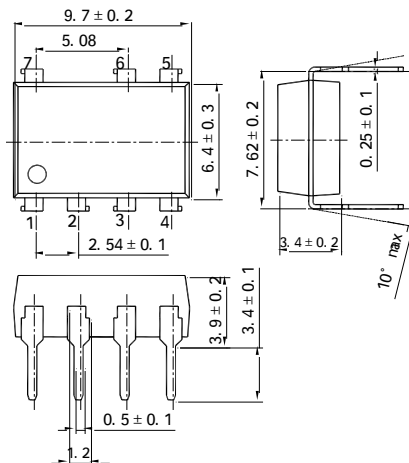
- Automatic Test Equipment
- Telephone Equipment
- Sensing Equipment
- Security Equipment
- I/O Modules
- Modem

■ Types

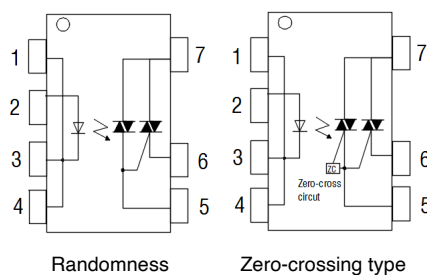
Output Rating		Marking model	Part Number	
Load voltage	Load current		DIP	SMD
110V/220V	0.9A	MJ2213/MJ2223	MJ2213/MJ2223	MJ2213A/MJ2223A
	1.2A	MJ3213/MJ3223	MJ3213/MJ3223	MJ3213A/MJ3223A
	2A	MJ5213/MJ5223	MJ5213/MJ5223	MJ5213A/MJ5223A

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.

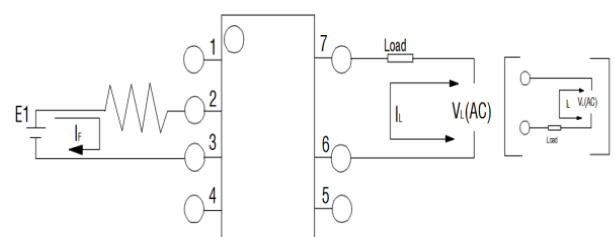
■ Dimensions



■ Terminal Identification



■ Wiring Diagram



[Technical parameters (Ambient Temperature 25°C)]

■ I/O Absolute Maximum Ratings

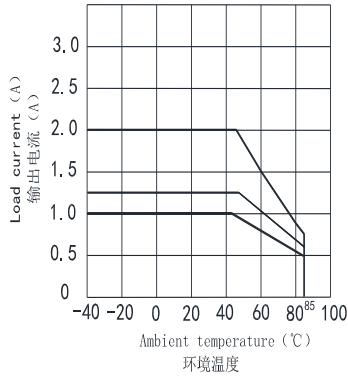
Item			Symbol	MJ2213 MJ2223	MJ3213 MJ3223	MJ5213 MJ5223
Operating Temperature			T _{OPR}	-30°C ~ +85°C		
Storage Temperature			T _{STG}	-40°C ~ +125°C		
Input	Forward Current	MAX.	I _F	50mA		
	Peak LED Current LED (f=100Hz,Duty=1%)	MAX.	I _{FP}	1A		
	Reverse Voltage	MIN.	V _R	5V		
Output	Load Voltage	MAX.	V _L	110VAC/220VAC		
	Repetitive peak OFF-state Voltage	MAX.	V _{DRM}	600V		
	ON-state RMS Current	MAX.	I _{T(RMS)}	0.9A	1.2A	2A
	Non-repetitive surge Current	MAX.	I _{TSM}	9A	12A	20A
I/O Breakdown Voltage			V _{ISO}	5000VAC		

■ Electrical Specifications

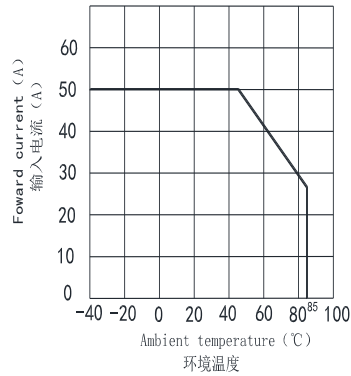
Item			Symbol	MJ2213 MJ2223	MJ3213 MJ3223	MJ5213 MJ5223	Conditions
Input	Forward Voltage	TYP.	V _F	1.16V			I _F =10mA
		MAX.		1.4V			
	Reverse Current	MAX.	I _R	10μA			V _R =5V
Output	Peak OFF-state current	MAX.	I _{DRM}	100μA			V _{DRM} =600V
	ON-state Voltage	MAX.	V _{TM}	2.3V			I _F =10mA,I _{TM} =Max
	Holding Current	MAX.	I _H	25mA			V _D =6V
	Rise rate of OFF-state	MIN.	dv/dt	200V/μS			$V_{DRM} = \frac{600}{\sqrt{2}}V$
		TYP.		1000V/μS			
Recovery Input Voltage		MIN.	V _{F OFF}	0.5V			
Minimum Trigger Current		TYP.	I _{FT}	2mA			V _D =6V
		MAX.		10mA			
Turn-On Time (Zero-on)		MAX.	T _{ON}	10ms			I _F =20mA (MJ2213、MJ3213、MJ5213 Zero-on)
Turn-On Time (Random-on)		TYP.		8μs			I _F =20mA (MJ2223、MJ3223、MJ5223 Random-on)
		MAX.		100μs			
Turn-Off Time		MAX.	T _{OFF}	10ms			
I/O Insulation Resistance		MIN.	R _{ISO}	50GΩ			DC500V

■ Characteristic curve

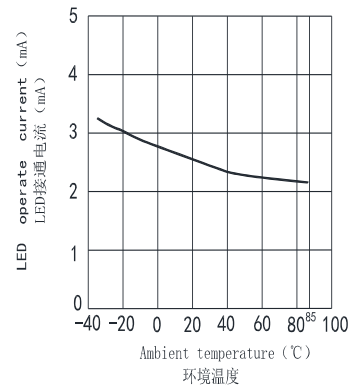
Load current Vs. Ambient temperature
输出电流-环境温度曲线



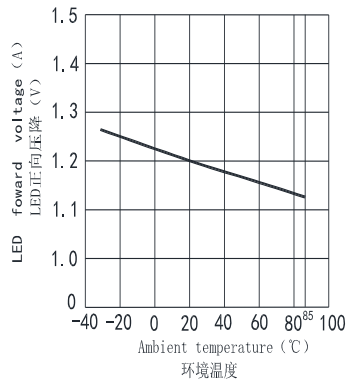
Foward current Vs. Ambient temperature
输入电流-环境温度曲线



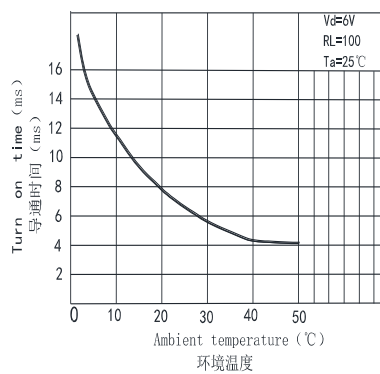
LED operate current Vs. Ambient temperature



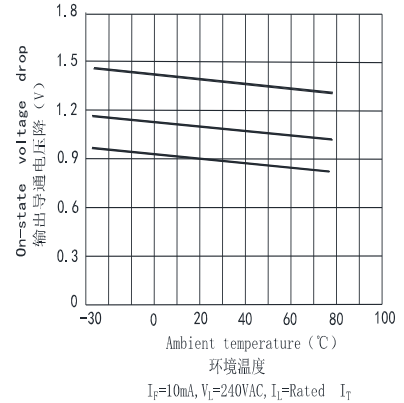
LED foward voltage Vs. Ambient temperature
LED正向电压-环境温度曲线



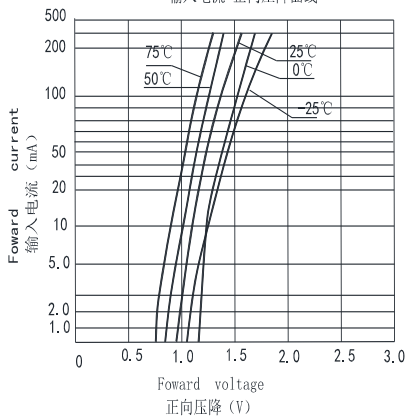
Turn on time Vs. Foward current
导通时间-输入电流曲线



On-state voltage drop VS. Ambient Temperature
输出导通电压降-环境温度曲线



Foward current Vs. Foward voltage
输入电流-正向压降曲线



On-state load current Vs. On-state voltage drop
输出电流-导通电压降曲线

