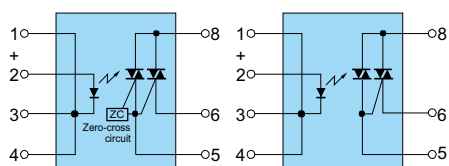


>>> Phototriac Relay

Phototriac Relay C2



E509779



B1067040001

Product

- Small package, DIP8 or SOP8
- Load current: 0.3, 0.6, 0.9, 1.2A
- Dielectric Strength: 5000VAC
- Load Voltage: 110VAC or 220VAC
- Trigger mode: Zero-cross and Non zero-cross

Ordering Reference

YS-C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load voltage	2: 75 ~ 264VAC			
Load current	12: 1.2A 09: 0.9A 06: 0.6A 03: 0.3A			
P: Non zero-cross				
Z: Zero-cross				
Package	D: DIP8 S: SOP8			

Application

- Household appliances: Air conditioner, microwave oven, washing machine, refrigerator, water heater, fan heater, induction heating pot, personal hygiene appliances, etc.
- Industry: Automatic machine, PLC, CNC machine, switch motor, fan, heating furnace, magnetic valve, industry robot, etc.

Model / Specification		ON-state RMS current	Trigger mode	Off-state peak voltage	Package quantity	
DIP	SOP				Tube	Taping
C203ZD	C203ZS	0.3A	Zero cross	600V	40 PCS/tube 50 tubes/carton	1000 PCS/reel 3 reels/carton
C206ZD	C206ZS	0.6A				
C209ZD	C209ZS	0.9A				
C212ZD	C212ZS	1.2A				
C203PD	C203PS	0.3A	Non-zero cross			
C206PD	C206PS	0.6A				
C209PD	C209PS	0.9A				
C212PD	C212PS	1.2A				

Technical parameters

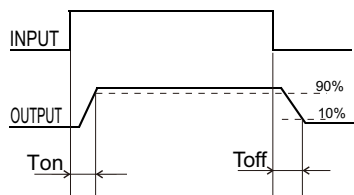
■ Max rated parameters (Environment temperature : 25°C)

Item		Symbol	C203P	C203Z	C206P	C206Z	C209P	C209Z	C212P	C212Z	Remark	
Input	LED Forward current	I_F	50mA									
	LED Reverse voltage	V_R	6V									
	Peak forward current	I_{FP}	1A									f = 100Hz Duty Ratio = 0.1%
Output	Repetitive peak off-state voltage	V_{DRM}	600V									
	On-state RMS current	$I_{T(RMS)}$	0.3 A		0.6 A		0.9 A		1.2 A			
	Surge current	I_{TSM}	3 A		6 A		9 A		12 A		50Hz one cycle	
Dielectric Voltage	Output - input insulation voltage	Viso	5000VAC									
Temperature	Work temperature	T_{opr}	-30°C ~ 85°C									
	Storage temperature	T_{stg}	-40°C ~ 125°C									

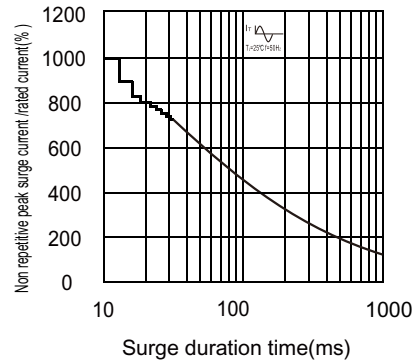
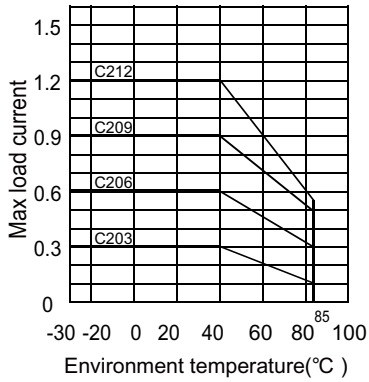
■ Electric parameters (Environment temperature 25°C)

Item		Symbol	Test condition	Min	Typical	Max	Unit
Input	LED Forward voltage	V_F	$I_F=10mA$		1.16	1.3	V
	LED Reverse current	I_R	$V_R=6V I_F=0mA$		0.1	10	μA
Output	Peak off-state current	I_{DRM}	$V_{DRM}=600V$		—	100	μA
	Peak on-state voltage drop	V_{TM}			—	2.5	V
	Holding current	I_H	$I_{FTM}=Max.$		—	25	mA
	Rise rate of Off-state critical voltage	dv/dt	$V_{DRM}=600V \times 1/\sqrt{2}$			200	V/ μS
Transmission	LED Trigger current	I_{FT}	$V_D=6V R_L=100\Omega$		10		mA
	Turn-On time	T_{on}		1		10	mS
	Turn-off time	T_{off}				10	mS
	Insulation resistance	R_{iso}	500VDC (input-output)			50	G Ω
Weight					0.58		g

■ Switch Time Waveform:



Characteristic curve



Outline dimensions(mm)



Connection diagram

Model	Circuit diagram	Trigger Model	Connection diagram
C203Z		Zero-Cross	
C206Z			
C209Z			
C212Z			
C203P		Non zero-cross	
C206P			
C209P			
C212P			