

Photo Triac

Features:

Compact DIP 8 pin package
High isolation voltage 5000 VAC between input and output
600VDC peak blocking voltage
Be suitable for 110/220VAC power voltage
Random-on & Zero-on types are available



Applications:

Power TRIAC driver
Household appliance
Programmable controller
Solid state relay

Order Code:

TC 2 09 R- 1
a b c d e

a:Model: TC=DIP 8 pin package type

b:Output Voltage:2=240VAC

c:Output Current:09=0.9Amp;12=1.2Amp

d:Turn-on Type:Nil=Zero-on;R=Random-on

e:Option:Nil=Standard,1-9=Special code

Absolute Maximum Rating:

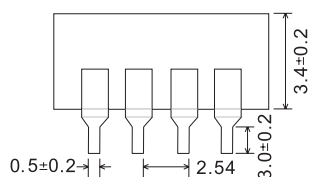
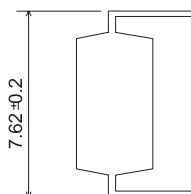
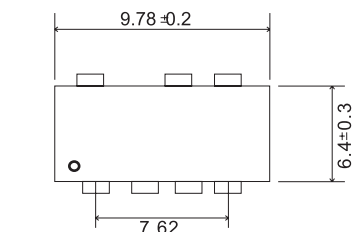
Items		Symbol	Rating	Unit
Input	Forward current	I_F	50	mA
	Peak forward current	I_{FP}	1	A
	Reverse voltage	V_R	6	V
Output	Off-state Output voltage	V_{DRM}	600	VDC
	On-state Output current	$I_{T(RMS)}$	0.9/1.2	A
	Non-repetitive surge current	I_{TSM}	8	A
I/O Isolation Voltage		V_{iso}	5000	VAC
Operating Temperature		T_{opr}	-30~+85	°C
Storage Temperature		T_{stg}	-40~+125	°C

Electrical Characteristics:

Items		Symbol	Min.	TYP.	MAX.	Unit	Conditions
Input	Forward current	V_F	—	1.18	1.4	V	$I_F=10mA$
	Reverse current	I_R	—	—	10	uA	$V_R=6V$
Output	Peak leakage current	I_{DRM}	—	—	100	uA	$V_{DRM}=600V$
	On-state voltage	V_{TM}	—	1.2	2.3	V	$I_T=Rated I_T$
	Hold current	I_H	—	—	25	mA	$V_D=6V$
	Rise rate of off-state	dv/dt	200	1000	—	V/uS	$V_{DRM}=600/\sqrt{2}$
Minimum trigger current		I_{FT}	—	2	10	mA	$V_D=6V$
Recovery Input Voltage		$V_{F_{OFF}}$	0.5	—	—	V	
I/O Isolation Resistance		R_{iso}	50G	—	—		DC=500V
Turn-on Time(Random-on)		T_{ON}	—	8	100	uS	$I_F=20mA$
Turn-on Time(Zero-on)		T_{ON}	—	—	10	mS	—
Turn-off Time		T_{OFF}	—	—	10	mS	—

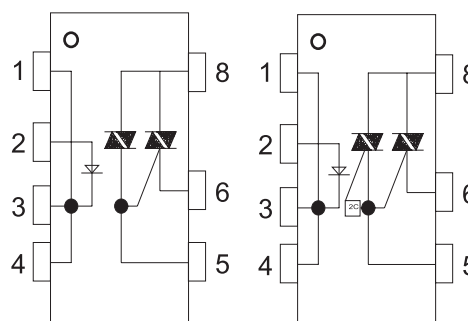
Note :Recommended trigger current is between 10mA and 20mA.

Dimensions:(Unit:mm)



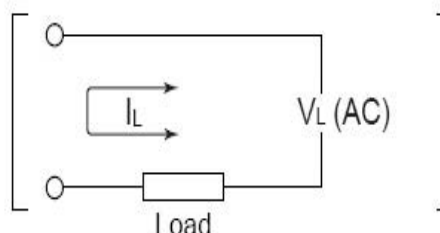
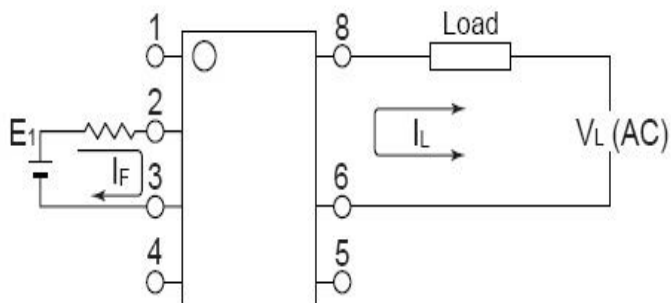
(Random-on)

(Zero-on)



- 1.Cathode
- 2.Anode
- 3.Cathode
- 4.Cathode
- 5.Gate
- 6.T1
- 8.T2

Wiring Diagram



REFERENCE DATA:

