

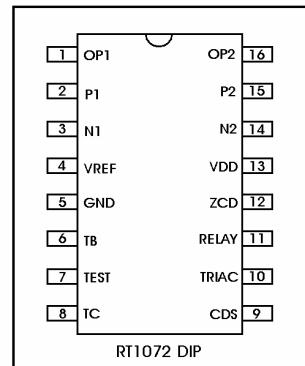
## Description:

RT1072 is a PIR(Passive Infra-Red)controller,The PIR controller can sense the motion movement and activate the electronic application. The interstructure of the PIR controller IC is using The analog mixing digital technique to design,It is proven to be very stable in any circumstances. It can be either drive TRIAC or RELAY depending on users' Choice. The application circuit is very cost effective.

## Features :

- Mixed-ModeE COMS IC.
- High noice immunity.
- Constant current CDS input.
- PIR input.
- Adjustable output duration.
- Drive either RELAY OR TRIAC.

## Pin Out :



## Absolute Maximum Rating:

Symbol	Parameter	Condition	Rating	Unit
$V_{DD}$	Supply voltage		-0.3 ~ 6	V
$V_I$	Input voltage		-0.3 ~ VDD+0.3	V
$V_O$	Output voltage		-0.3 ~ VDD+0.3	V
$P_{dis}$	Max. Power Dissipation	$VDD=5V$	300	mW
$T_{OP}$	Operating Temperature		-20 ~ 70	
$T_{st}$	Storage Temperature		-50 ~ 125	

## Electrical Characteristics:

$VDD = 5 V$  , Temp = 25

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
$V_{DD}$	Supply voltage		4	5	5.5	V
$V_{ref}$	Regulated Voltage	$VDD=5V$	3	3.4	3.8	V
$V_{IH(CDS)}$	CDS Input High Voltage	$VDD=5V$	1.3	1.7	2.2	V
$V_{IL(CDS)}$	CDS Input Low Voltage	$VDD=5V$	0.6	0.9	1.1	V
$I_{dd}$	Operating Current	No Load, OSC on	100	150	200	$\mu A$
$I_{SB}$	Stand By Current	No Load, OSC off		40	60	$\mu A$
$I_{ref}$	Source Current of Vref		200			$\mu A$
$I_{OH(relay)}$	Source Current of Relay				5	mA
$I_{OL(triac)}$	Sink Current of TRIAC				15	mA
$f_{TB}$	Frequence of TB		12.8	16	19.2	KHz
$f_{TC}$	Frequence of TC		12.8	16	19.2	KHz
$A_{VO}$	OP Amp open loop gain	$VDD=5V$		100		dB