

TT6061A PRODUCT SPECIFICATION

GENERAL DESCRIPTION :

TT6061A IC IS A KIND OF CMOS TECHNOLOGY PERMITTED TO DESIGN 3 STEPS TOUCH-DIMMER.
THE DETAILED FUNCTIONS ARE AS FOLLOW :

TT6061A : OFF → NIGHT → MEDIUM → HIGH → OFF

THE TIME THAT TRIAC TURN ON IS AS FOLLOWING FOR EACH STEP OF ALL FUNCTION

3-STEP MODE	NIGHT	MEDIUM	HIGH
AC=110V/60HZ	5.9 ±0.4mS	4.1 ±0.3mS	1.2 ±0.2mS
AC=220V/50HZ	6.9 ±0.4mS	4.8 ±0.3mS	1.4 ±0.2mS

PIN ASSIGNMENT

PIN NO.	PIN NAME	FUNCTION DESCRIPTION	I/O
1	CK	SYSTEM CLOCK INPUT	I
2	FI	60 OR 50 HZ LINE FREQUENCY	I
3	VDD	POWER INPUT PIN FOR VDD	P
4	TI	TOUCH INPUT	B
5	CI	SENSOR CONTROL INPUT	B
6	NC		
7	VSS	POWER INPUT PIN FOR VSS	P
8	AT	ANGLE-TRIGGER OUTPUT	O

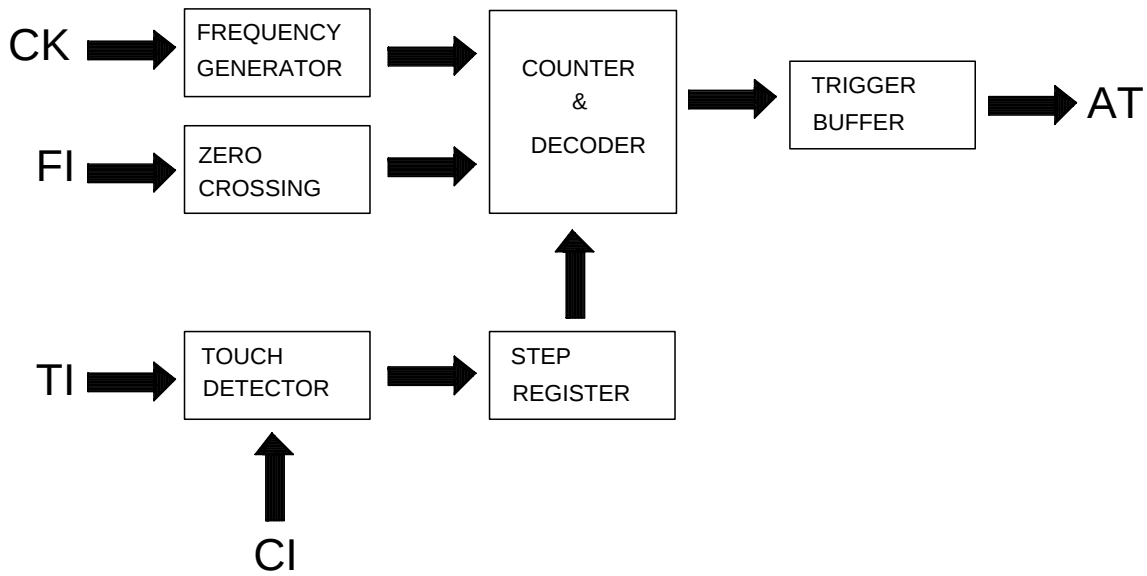
FEATURES :

1. NO MECHANICALLY SWITCH ELEMENTS.
2. HIGH SENSITIVITY AND STABILITY FOR LONG CONNECTING WIRE AND HEAVY LOADING (800pf) ON SENSE-PLATE FOR HUMAN BODY CAPACITY = 50pf
3. VERY SMALL NUMBER OF PERIPHERAL COMPONENTS REQUIRED

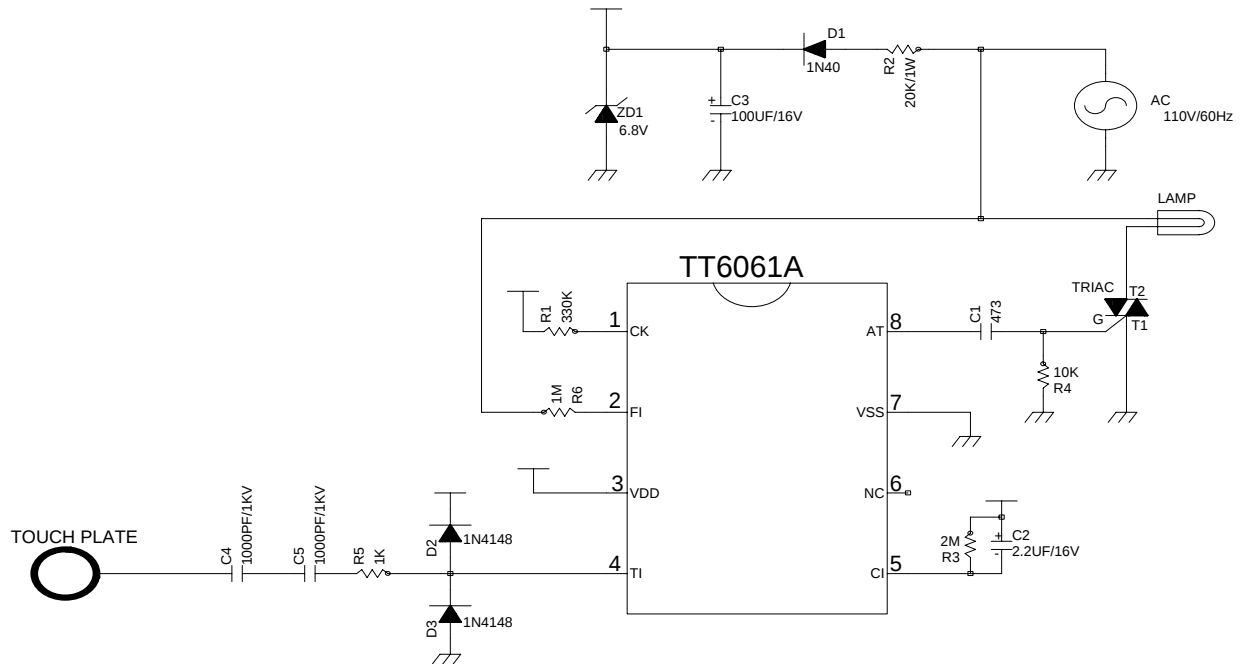
OPERATING PARAMETER :

1. OPERATING VOLTAGE(VDD) : 6.8 V
2. OPERATING CURRENT : ≤ 1.0 mA
3. TRIGGER OUTPUT CURRENT (AT PIN) : ≤ -30 mA (Vout=1.0V)
4. INPUT LEAKAGE : ≤ 0.5 uA
5. VOLTAGE INPUT RANGE : (VSS - 0.3V) <-> (VDD + 0.3V)
6. OPERATING TEMPERATURE : 0°C ~ 80°C
7. STORAGE TEMPERATURE : -20°C ~ 120°C

TT6061A BLOCK DIAGRAM

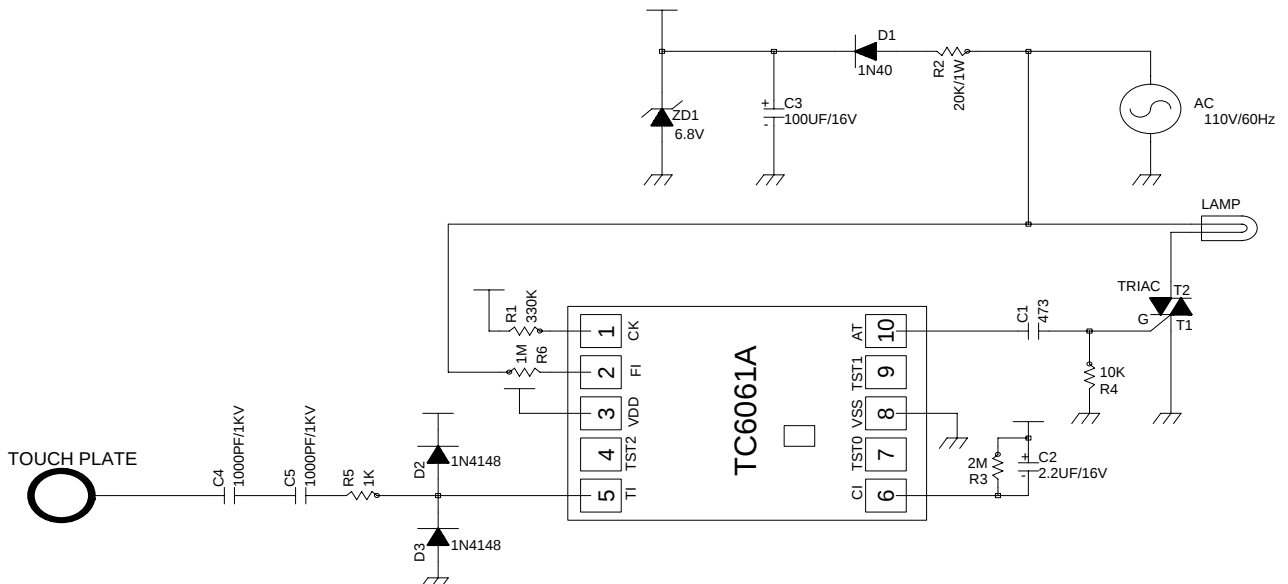


TT6061A RECOMMEND APPLICATION DIAGRAM

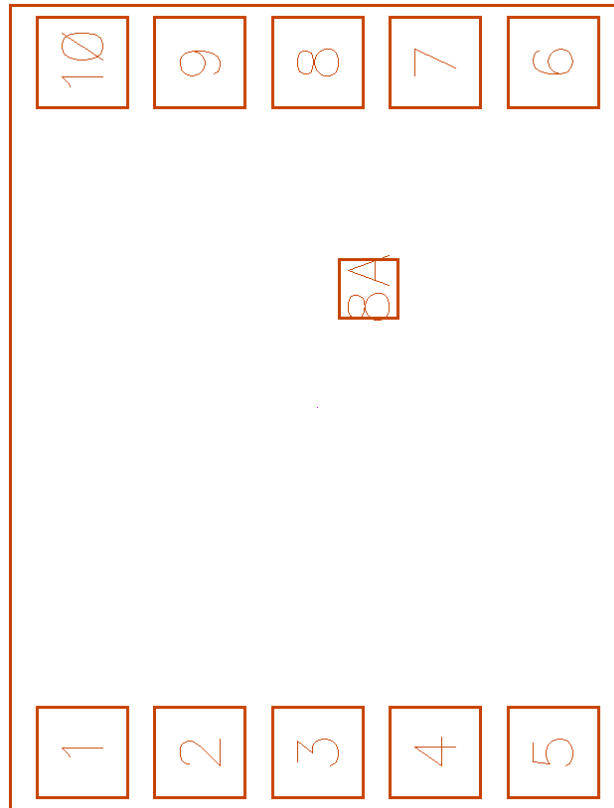


NOTE : FOR 220V/50HZ :
 CHANGE R1 330K TO 390K (FOR 60HZ CHANGE TO 50HZ)
 CHANGE R2 20K/1W TO 39K/2W (FOR 110V CHANGE TO 220V)
 CHANGE R6 1M TO 2M (FOR 110V CHANGE TO 220V)

TC6061A RECOMMEND APPLICATION DIAGRAM



NOTE : FOR 220V/50HZ :
 CHANGE R1 330K TO 390K (FOR 60HZ CHANGE TO 50HZ)
 CHANGE R2 20K/1W TO 39K/2W (FOR 110V CHANGE TO 220V)
 CHANGE R6 1M TO 2M (FOR 110V CHANGE TO 220V)

TC6061A Pad diagram and coordinate


CHIP SIZE = 690um X 880um

PIN NO.	PIN NAME		X=		Y=

1	CK	X=	-244.00	Y=	-343.30
2	FI	X=	-122.00	Y=	-343.30
3	VDD	X=	0.00	Y=	-343.30
4	TST2	X=	122.00	Y=	-343.30
5	TI	X=	244.00	Y=	-343.30
6	CI	X=	244.00	Y=	343.25
7	TST0	X=	122.00	Y=	343.25
8	VSS	X=	0.00	Y=	343.25
9	TST1	X=	-122.00	Y=	343.25
10	AT	X=	-244.00	Y=	343.25



ORDER INFORMATION

- a. Package form: TT6061A
- b. Chip form: TC6061A
- c. Wafer base: TD6061A

REVISE HISTORY

- 1. 2009/03/13
-Original version : V_1.0