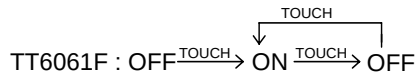


TT8486F PRODUCT SPECIFICATION

GENERAL DESCRIPTION :

TT6061F IC IS A KIND OF CMOS TECHNOLOGY PERMITTED TO DESIGN ON/OFF TOUCH -DIMMER.
 THE DETAILED FUNCTIONS ARE AS FOLLOW :



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		P
7	VSS	POWER INPUT PIN FOR VSS	P
8	AT	ANGLE-TRIGGER OUTPUT	O

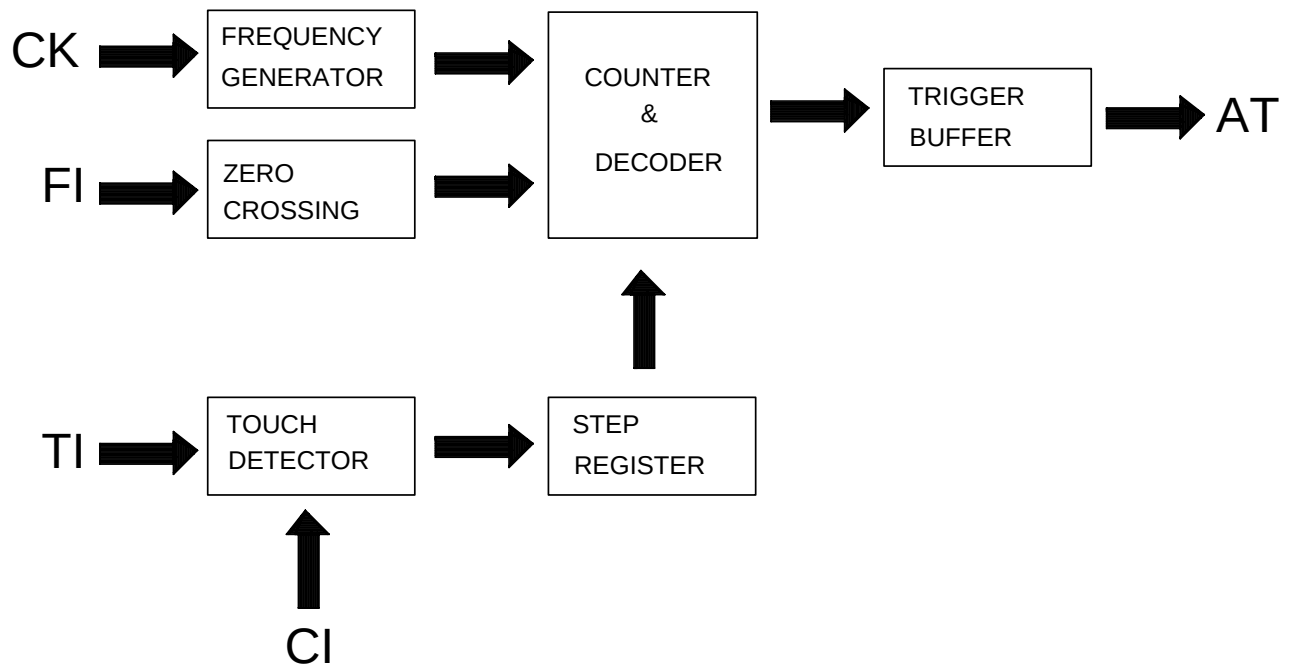
FEATURES :

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

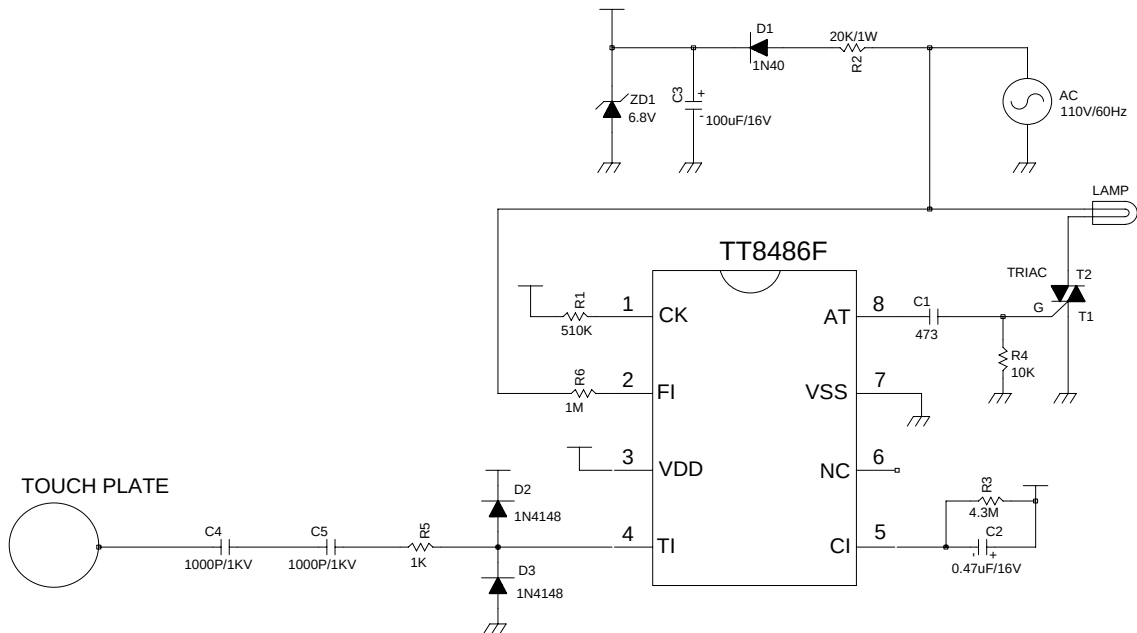
OPERATING PARAMETER :

1. OPERATING VOLTAGE : 6.8 V
2. OPERATING CURRENT : $\leq 1.0 \text{ mA}$
3. TRIGGER OUTPUT CURRENT (AT PIN) : $\leq -30 \text{ mA}$ ($V_{out}=6.8V$)
4. INPUT LEAKAGE : $\leq 0.5 \text{ uA}$
5. INPUT LOW VOLTAGE : $\leq VSS + 0.5V$
6. INPUT HIGH VOLTAGE : $\geq VDD - 0.5V$
7. OPERATING TEMPERATURE : $0^{\circ}\text{C} \sim 80^{\circ}\text{C}$
8. STORAGE TEMPERATURE : $-20^{\circ}\text{C} \sim 120^{\circ}\text{C}$

TT8486F BLOCK DIAGRAM

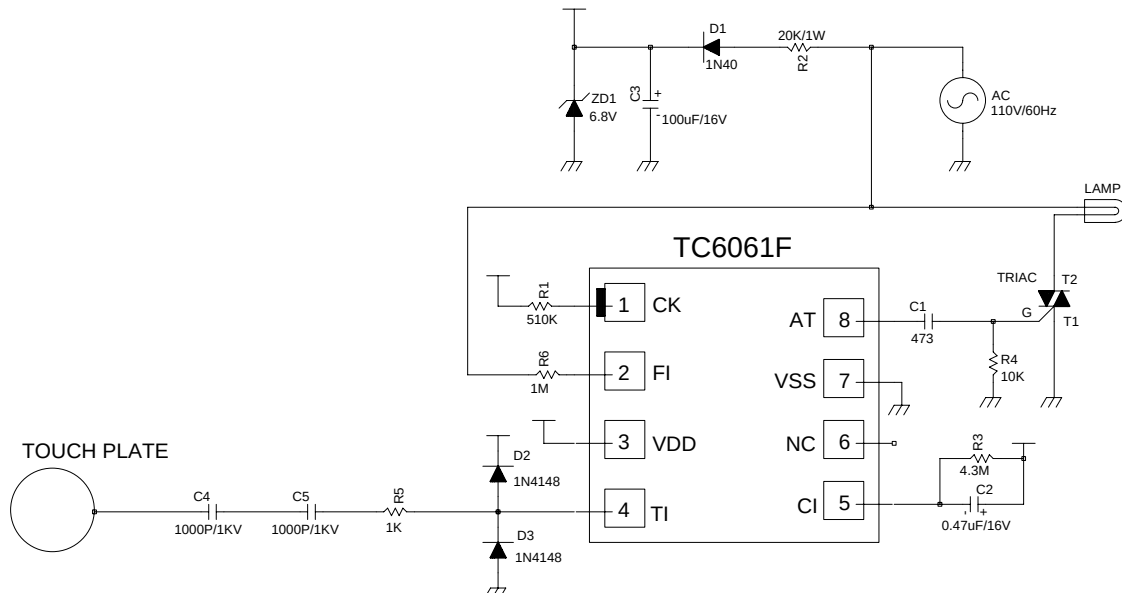


TT8486F RECOMMEND APPLICATION DIAGRAM



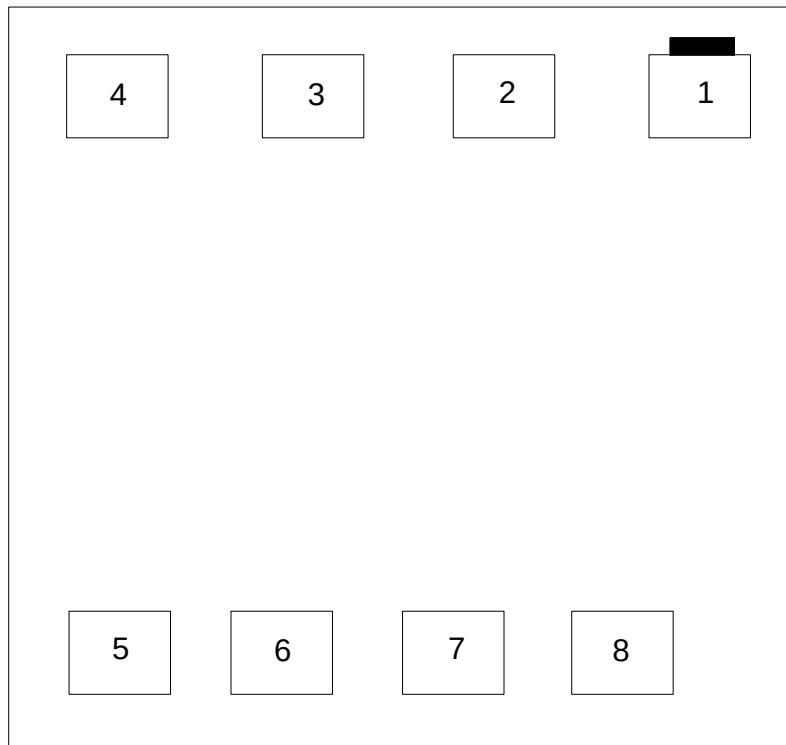
NOTE : FOR 220V/50HZ :
 CHANGE R1 510K TO 620K (FOR 60HZ CHANGE TO 50HZ)
 CHANGE R2 20K/1W TO 40K/2W (FOR 110V CHANGE TO 220V)
 CHANGE R6 1M TO 1.5M (FOR 110V CHANGE TO 220V)

TC6061F RECOMMEND APPLICATION DIAGRAM



NOTE : FOR 220V/50HZ :
 CHANGE R1 510K TO 620K (FOR 60HZ CHANGE TO 50HZ)
 CHANGE R2 20K/1W TO 40K/2W (FOR 110V CHANGE TO 220V)
 CHANGE R6 1M TO 1.5M (FOR 110V CHANGE TO 220V)

TC8486F PAD'S DIAGRAM



TC8486F PAD'S COORDINATE

PIN NAME	PIN NO.	X	Y
CK	1	199.8	267.7
FI	2	51.3	267.7
VDD	3	-66.6	267.7
TI	4	-199.8	267.7
CI	5	-199.8	-267.7
NC	6	-82.8	-267.7
VSS	7	34.2	-267.7
AT	8	151.2	-267.7

CHIP SIZE : 640 um x 830 um

Order Information :

- a. Package form : TT8486F
- b. Chip form : TC8486F
- c. Wafer base : TD8486F