

SS0604 PRODUCT SPECIFICATION

GENERAL DESCRIPTION :

SS0604 IC IS A KIND OF CMOS TECHNOLOGY PERMITTED TO DESIGN 4 STEPS TOUCH-DIMMER. THE DETAILED FUNCTIONS ARE AS FOLLO :

STEPS	BRIGHTNESS DELAY (60HZ)	BRIGHTNESS DELAY (50HZ)
OFF ↓ NIGHT LIGHT ↓ MOOD LIGHT ↓ MEDIUM LIGHT ↓ HIGH LIGHT ↓ OFF	5.9 ± 0.4mS 4.6 ± 0.3mS 3.0 ± 0.3mS 1.0 ± 0.2mS	7.0 ± 0.4mS 5.3 ± 0.3mS 3.5 ± 0.3mS 1.0 ± 0.2mS

PIN ASSIGNMENT

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

SUNSTAR 深圳市商斯达电子有限公司
SHENZHEN SUNSTAR ELECTRONICS CO.,LTD.

集成电路
单片机

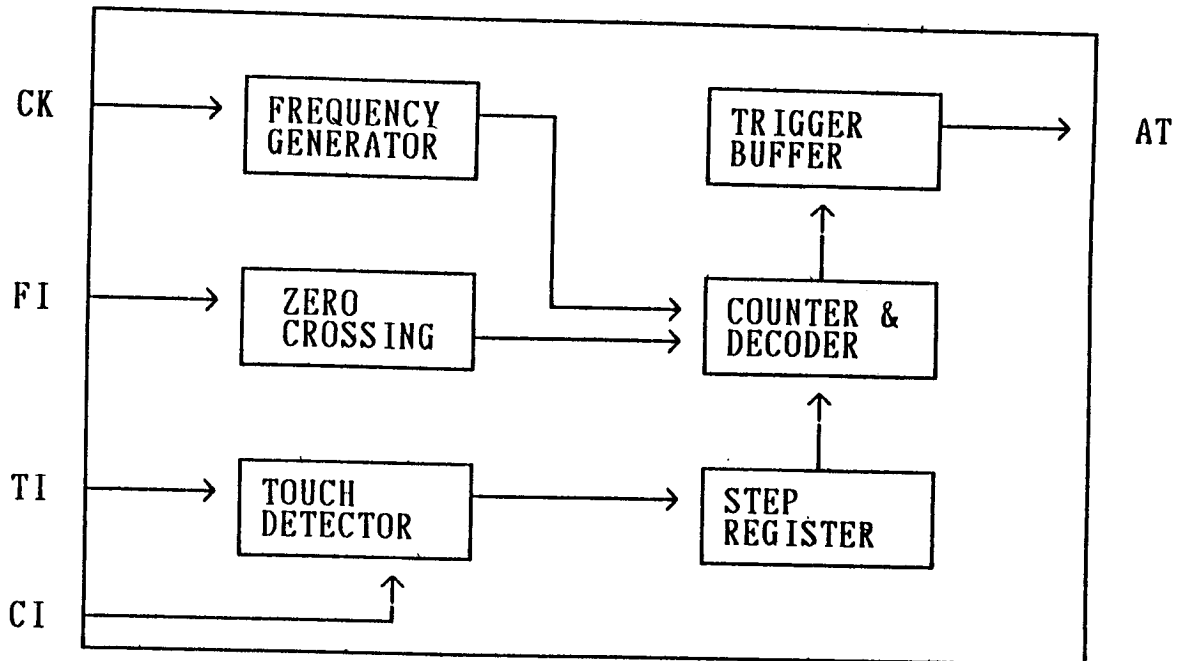
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REFERENCE ONLY
DATE : 1/13/1998
VERSION 1.0
PAGE 1 OF 3

FEATURES :

1. NO MECHANICALLY SWITCH ELEMENTS.
2. HIGH SENSITIVITY AND STABILITY FOR LONG CONNECTING WIRE AND HEAVY LOADING (400pf) ON SENSE-PLATE FOR HUMAN BODY CAPACITY = 50pf.
3. VERY SMALL NUMBER OF PERIPHERAL COMPONENTS REQUIRED .

BLOCK DIAGRAM



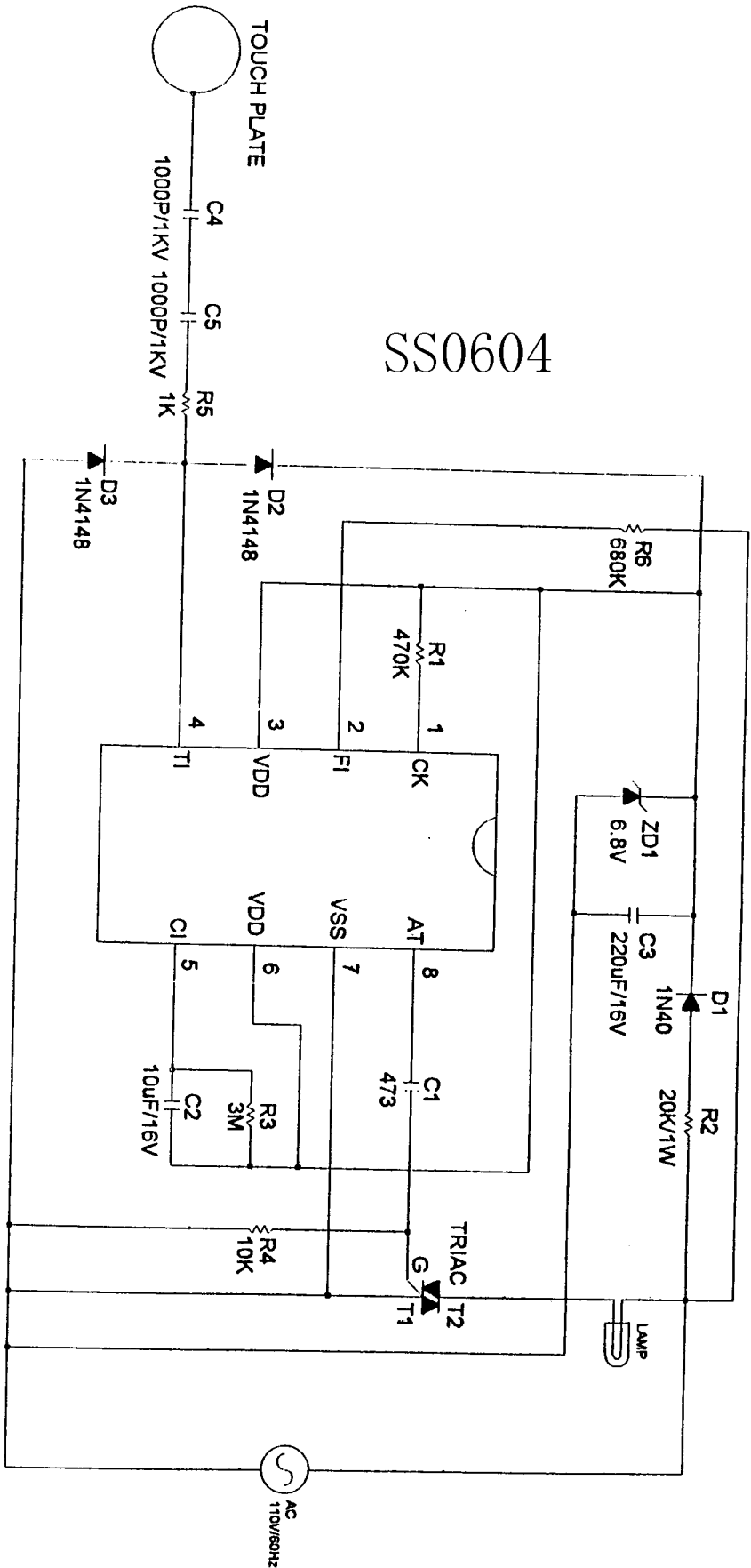
OPERATING PARAMETER :

1. OPERATING VOLTAGE : 5 - 6.8 V
2. OPERATING CURRENT : ≤ 2.0 mA
3. TRIGGER SINKING CURRENT (AT PIN) : ≤ -40 mA. ($V_{out}=3V$)
4. INPUT LEAKAGE : ≤ 0.5 μ A
5. INPUT LOW VOLTAGE : $\leq V_{SS} + 0.5V$
6. INPUT HIGH VOLTAGE : $\geq V_{DD} - 0.5V$
7. OPERATING TEMPERATURE : $0^{\circ}C \sim 80^{\circ}C$
8. STORAGE TEMPERATURE : $-20^{\circ}C \sim 120^{\circ}C$

REFERENCE ONLY
DATE : 1/13/1998
VERSION 1.0
PAGE 2 OF 3

RECOMMEND APPLICATION DIAGRAM

SS0604



NOTE:
 FOR 220V/50HZ : CHANGE R1 470K TO 560K (FOR 60HZ CHANGE TO 50HZ)
 CHANGE R2 20K/1W TO 40K/2W (FOR 110V CHANGE TO 220V)
 CHANGE R6 680K TO 1M (FOR 110V CHANGE TO 220V)

REFERENCE ONLY
 DATE : 1/13/1998
 VERSION 1.0
 PAGE 3 OF 3

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