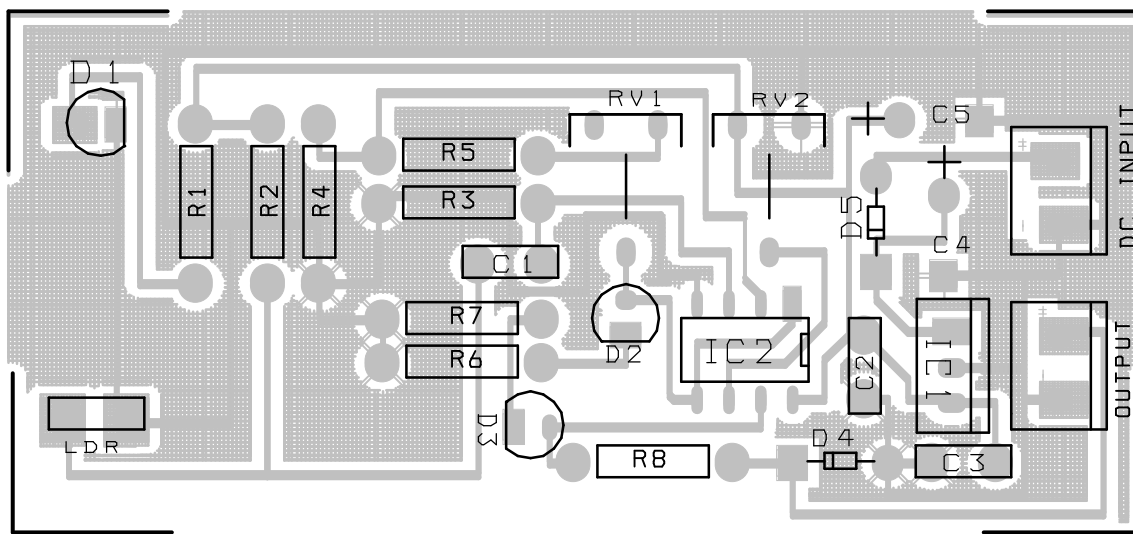
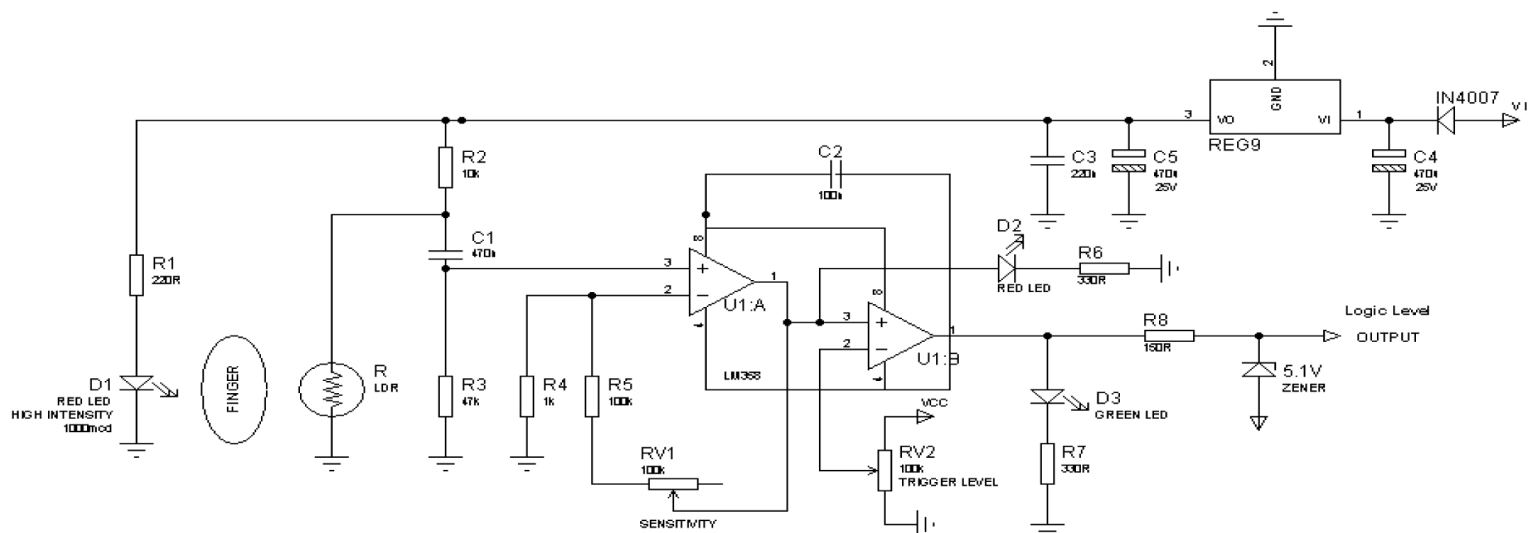




HEARTBEAT MONITOR

GE 203



BILL OF MATERIALS:

LDR	: Light Dependent Resistor
R1	: 220 OHM (RED-RED-BROWN)
R2	: 10 KOHM (BROWN-BLACK-ORANGE)
R3	: 47 KOHM (YELLOW-VIOLET-ORANGE)
R4	: 1 KOHM (BROWN-BLACK-RED)
R5	: 100 KOHM (BROWN-BLACK-YELLOW)
R6, R7	: 330 OHM (ORANGE-ORANGE-BROWN)
R8	: 150 OHM (BROWN-GREEN-BROWN)
RV1	: Var-Res 100koHM (Sensitivity)
RV2	: Var-Res 100koHM (Trigger Level)
C1	: 470nF 474

C2	: 100nF 104
C3	: 220nF 224
C4, C5	: 470μF 25V
D1	: RED LED_HIGH INTENSITY (1000mcd)
D2	: RED LED
D3	: GREEN LED
D4	: ZENER 5.1V
D5	: DIODE 1N4007
IC1	: Regulator 9V
IC2	: LM358
J1, J2	: Screw Junctions, support 8pins

GE203 kit to introduce many basic concepts in electronics .

Now it's your own to measure your heartbeats, just place your finger in between the LDR and D1 then green led light rate will be synchronized with your heartbeat one. With output voltage{ limit 5.1V (for interface with microcontroller)}.

WARNING: D1 & LDR must be placed face to face.