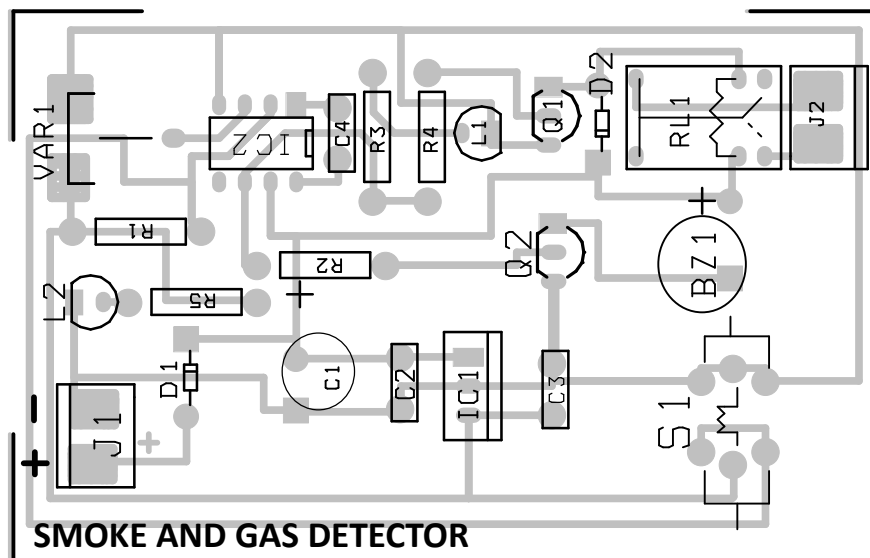
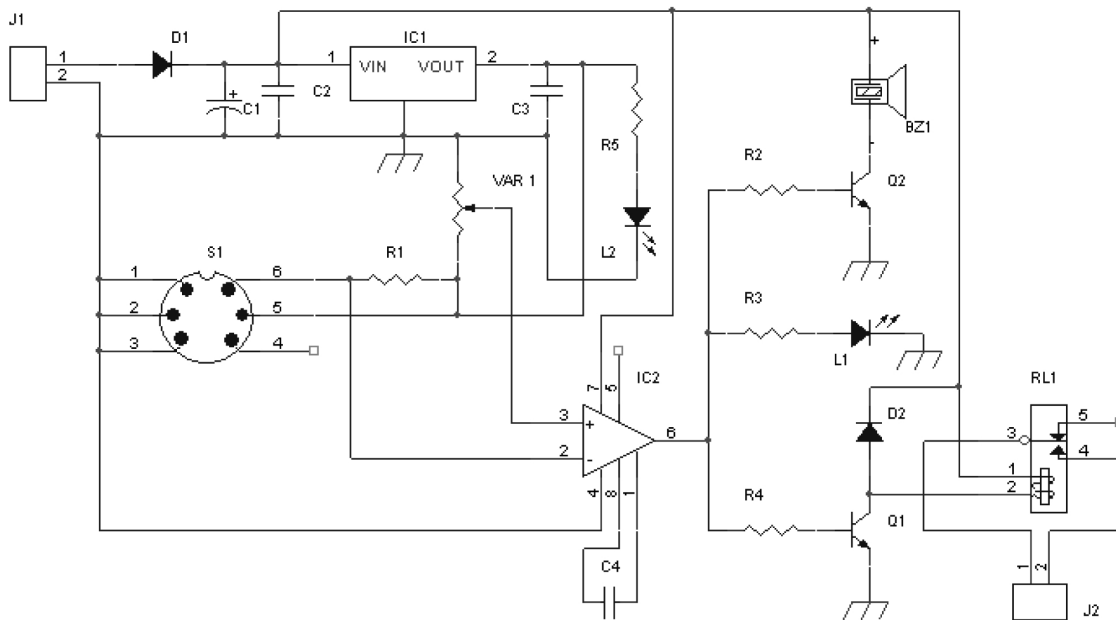


# SMOKE AND GAS DETECTOR

GE 197



## BILL OF MATERIALS:

|         |                                 |         |                          |
|---------|---------------------------------|---------|--------------------------|
| R1:     | 22 K OHM (Red, Red, Orange)     | IC1:    | 7805 (Voltage Regulator) |
| R2, R4: | 4.7 K OHM (Yellow, Violet, Red) | IC2:    | CA3130 (Comparator)      |
| R3, R5: | 510 OHM (Green, Brown, Brown)   |         | Support ic 8 pins        |
| VAR1*:  | 4.7 K OHM (Variable Resistor)   | L1:     | LED Red 5mm              |
| C1:     | 1000 uF 16V                     | L2:     | LED Green 5mm            |
| C2, C3: | 100 nF 50V 104                  | RL1:    | Relay 12V                |
| C4:     | 47 pF 50V 47                    | S1:     | GAZ Sensor               |
| D1, D2: | Signal Diode (1N4007)           | BZ1:    | Buzzer                   |
| Q1, Q2: | BC337 (NPN Transistor )         | J1, J2: | Screw Junctions          |

\* Regulate the variable to obtain a high sensitivity.