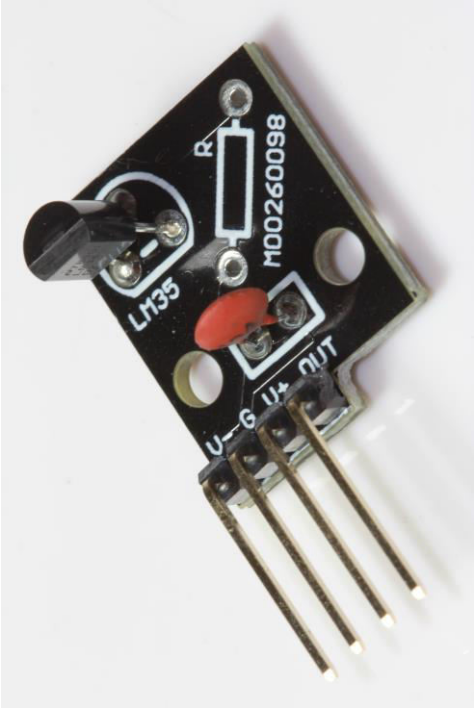
LM35 TEMPERATURE SENSOR MODULE

(ARDUINO COMPATIBLE)
PRODUCT CODE: M00270060

FEATURE:

- Assembly is needed.
- Arduino Sketch example is shown.
- Requires 1 Arduino UNO (not included).



READ BEFORE INSTALLATION:

- Put the component on the side of screen printing and solder on the back of PCB without printing.
- On component, longer leg is "+".
- On PCB marking, square pad as Figure 1 is always "+".

FIGURE 1

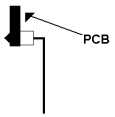


FIGURE 2

FIGURE 3

DESCRIPTION:

The circuit design is based on the Arduino UNO. Of course, this can be used on any brand of Microcontroller or external circuit if the pin location is matched. If this is not matched, just route this yourself.
The function of C is just to make the supply voltage more stable, this module still work even there is no such capacitor.
The Sketch example has shown you the simple action between temperature and reading shown on Serial output of Arduino IDE.

INSTALLATION:

Just install the component to the PCB M00260098 according to below table

ITEM	SYMBOL ON PCB	DESCRIPTION	OUTLOOK	DIRECTION IS IMPORTANT?
1	R	THE ACTUAL FUNCTION AND VALUE OF R PLEASE READ THE LM35 MANUAL(WEB). THE PACKAGE DOES NOT PROVIDE THIS BECAUSE THERE ARE MANY CHOICES.	/	/
2	LM35	TEMPERATURE SENSOR	FIGURE 3	YES
3	C	CAPACITOR, 10*10E4pF	MARK WITH 104 OR SAME MEANING OF VALUE	NO
4	V- G V+ OUT	BREAK AWAY MALE HEADERS	4 PINS	FIGURE 2

CIRCUIT DIAGRAM:

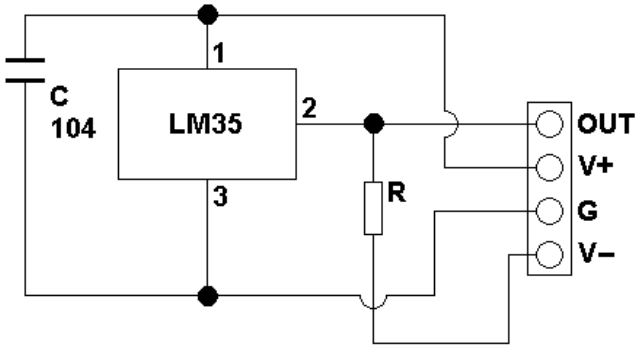


FIGURE 4

SKETCH:

The Sketch use the below UNO pin connection as example.

PIN ON MODULE	PIN ON UNO BOARD
OUT	A0
V+	5V
G	G
V-	/

```
/* This Sketch show you the simplest method of getting the reading of
     temperature from LM35 by using the Serial output of Arduino. */

int t;

void setup() {

   Serial.begin(9600);

}

void loop() {

   /* Reading of value at A0 */
   t = analogRead(0);

   /* Value of "t" is shown in the Serial output. */
   Serial.println(t, DEC);
   delay (500);

}
```