BMP180 High-Precision Digital Pressure and Temperature Sensor



Produktkode: 954aa
Tilgjengelighet: 3
Weight: 0.00kg
Custom Field 5 (Location): C9

Pris: kr. 35,00

Kort beskrivelse
BMP180 High-Precision Digital Pressure and Temperature Sensor

Beskrivelse

BMP180 High-Precision Digital Pressure and Temperature Sensor

The BMP180 by Bosch Sensortec is a high-precision digital sensor designed for measuring environmental temperature, pressure, and altitude. This ultra-low power, low voltage component is optimized for high accuracy and stability, making it ideal for mobile phones, PDAs, GPS navigation devices, and outdoor equipment.

- **Pressure Measurement Range**: 300 to 1100 hPa (Altitude: 9000m to -500m)
- **Voltage**: 1.8V~3.6V (VDDA), 1.62V~3.6V (VDDD)
- **High Accuracy**: 0.06 hPa (0.5m) in low power mode, 0.03 hPa (0.25m) in high linearity mode
- **Low Power Consumption**: 5?A in standard mode
- **Built-in Temperature Sensor**: Accuracy of 0.5°C

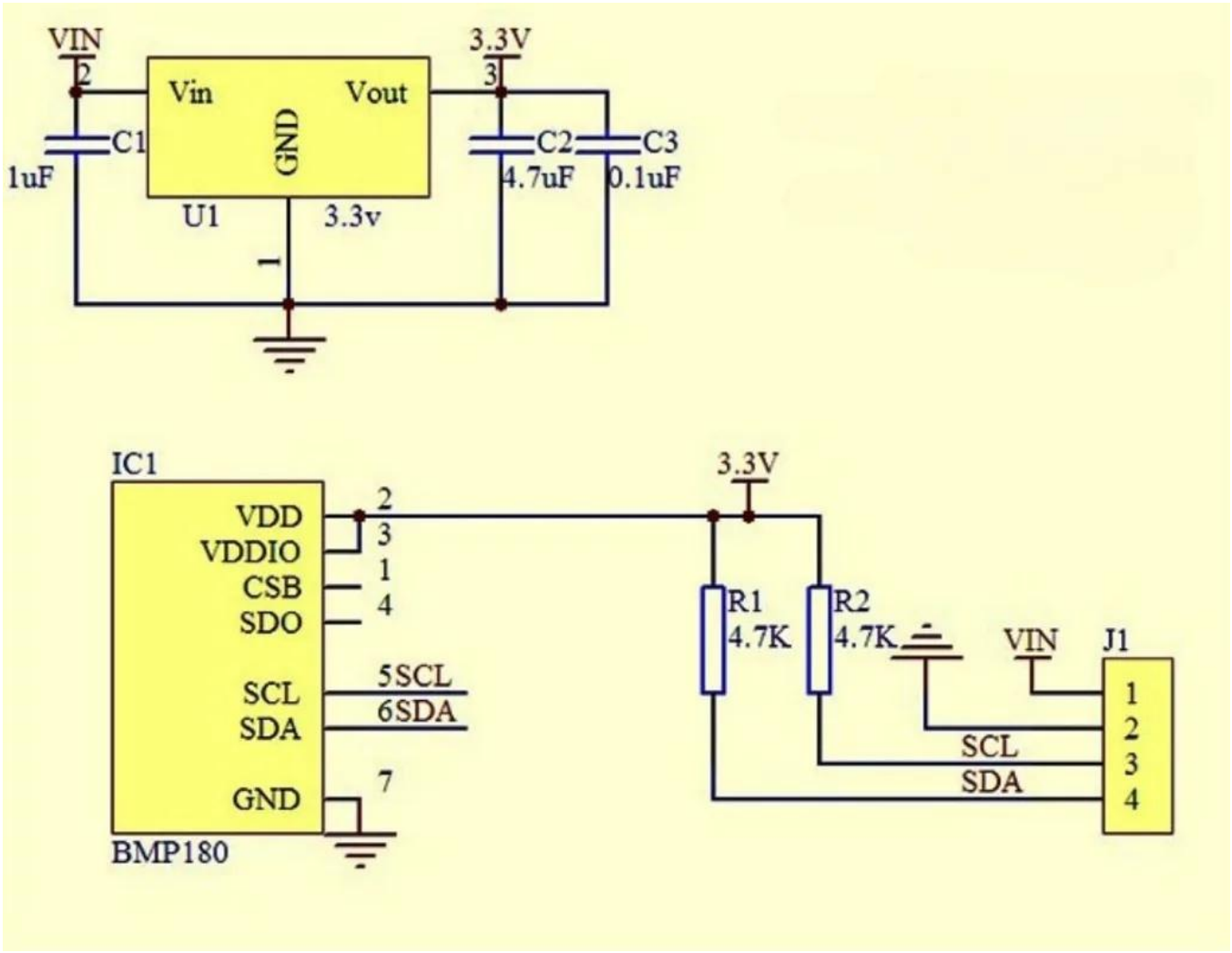
- **I2C Communication**: Supports easy integration with microcontrollers

The BMP180 is perfect for applications requiring precise pressure and altitude measurements, such as weather monitoring and altitude tracking

Key Features:

- **High Accuracy**: Absolute accuracy down to 0.03 hPa.
- **Low Power Consumption**: Only 3?A, perfect for battery-powered devices.
- **Easy Integration**: I2C interface for seamless connection with microcontrollers.
- **Versatile Applications**: Suitable for weather monitoring, drones, and IoT devices.
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Enhance your projects with the BMP180 sensor for reliable and precise pressure and temperature measurements.


VIN
2
Vin
Vout
GND
3.3V
3
C1
1uF
C2
4.7uF
C3
0.1uF
U1
3.3v
1
IC1
VDD
VDDIO
CSB
SDO
SCL
SDA
GND
2
3
1
4
5SCL
6SDA
7
BMP180
3.3V
R1
4.7K
R2
4.7K
VIN
J1
1
2
3
4
SCL
SDA