Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

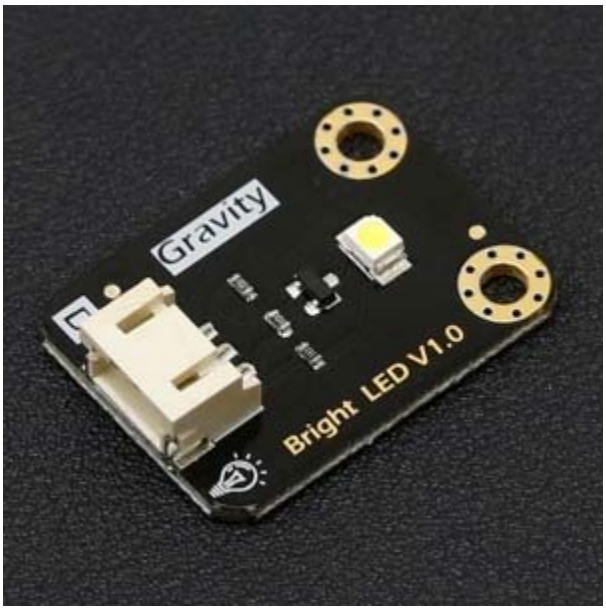
With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Bright LED Module SKU: DFR0438



Bright LED Module SKU: DFR0438

Contents

Introduction

The Bright LED module is designed for some special application. It's using a very bright LED component as its light source. Compatible with DFRobot gravity 3-Pin interface, plug and play. What you need is just a digital signal, you can drive it directly. Besides, the LED is so bright that do not look directly at the light.

Specification

- Operating Voltage: 5VDC
- Opearting Current: 20mA (Max)
- Dimension: 30*22(mm)/1.18*0.86 (in)

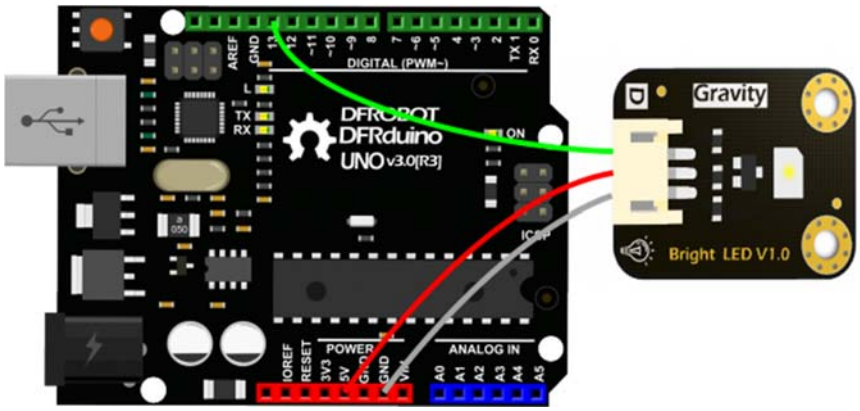
Board Overview

Tutorial

Requirements

- **Hardware**
  UNO x1
  Bright LED Module x1
  Some wires
- **Software**
  Arduino IDE Click to Download Arduino IDE from Arduino®
  https://www.arduino.cc/en/Main/Software

Connection Diagram



Sample Code

```
void setup() {
  // initialize digital pin 13 as an output.
   pinMode(13, OUTPUT);
}


// the loop function runs over and over again forever
void loop() {
  digitalWrite(13, HIGH);    // turn the LED on (HIGH is the voltage le
vel)
   delay(1000);               // wait for a second
  digitalWrite(13, LOW);    // turn the LED off by making the voltage L
OW
  delay(1000);              // wait for a second
}
```

Result

This simple sample code will turn on and off this LED module every one second. And the brightness is depend on the voltage it gets from Arduino. (Maximum is 5V.)

For any question/advice/cool idea to share, please visit **DFRobot Forum**.