

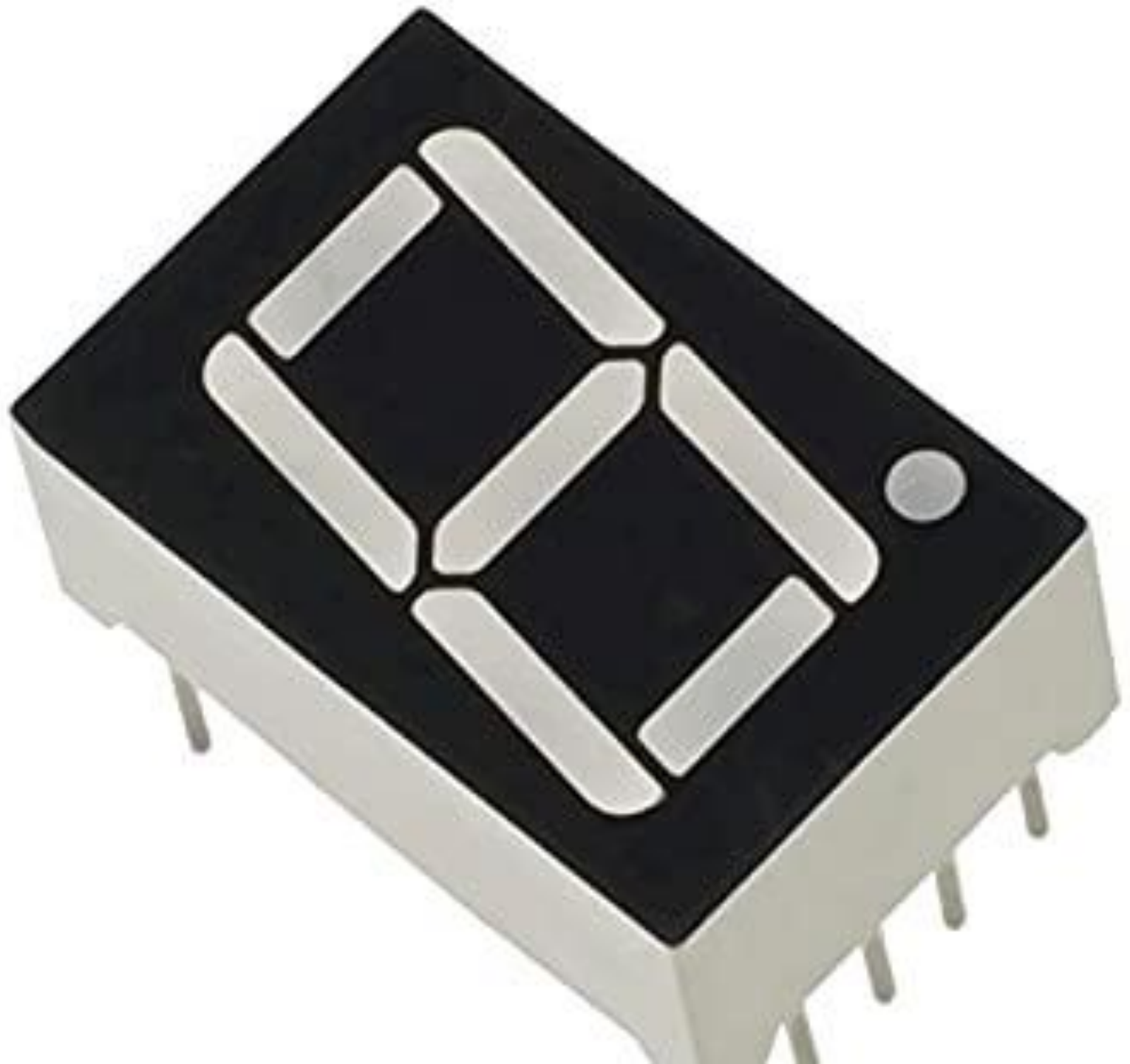


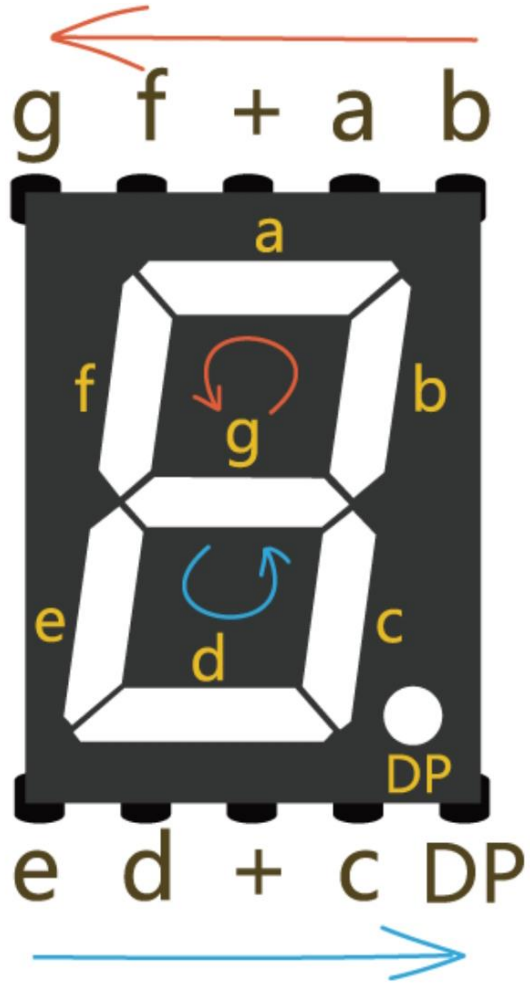
# 1.13

# 7-SEGMENT DISPLAY

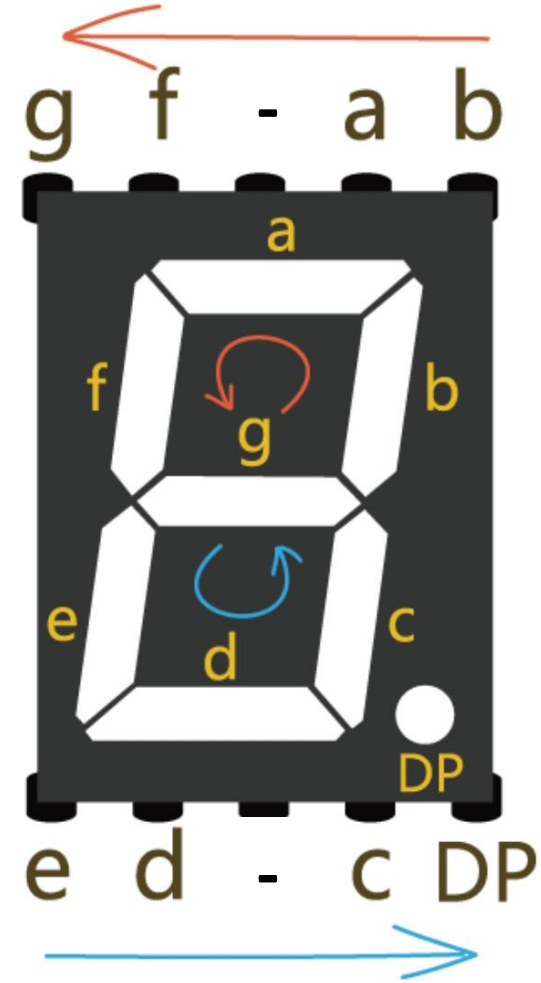


# 7-Segment Display

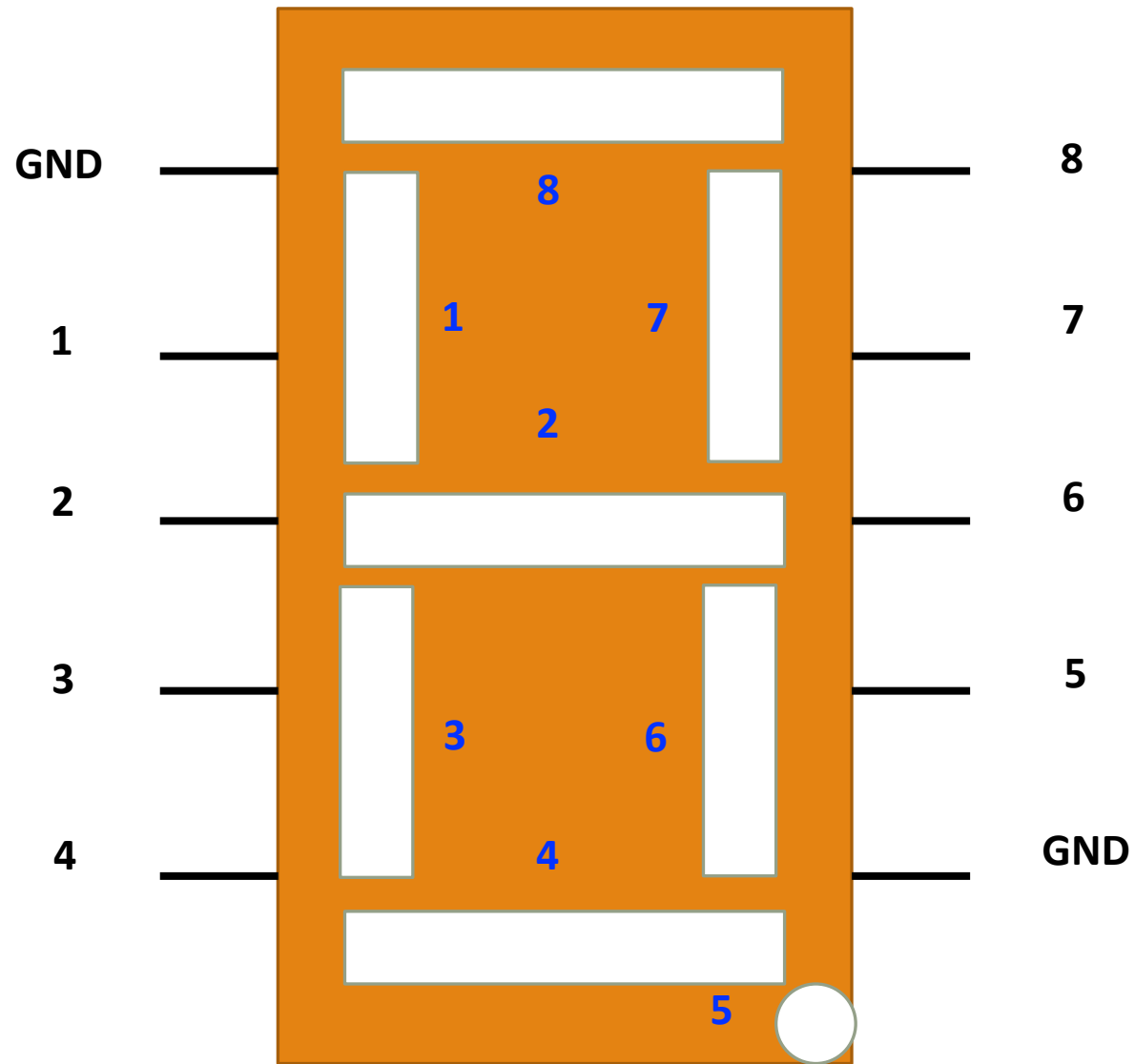




7-Segment Display common Anode



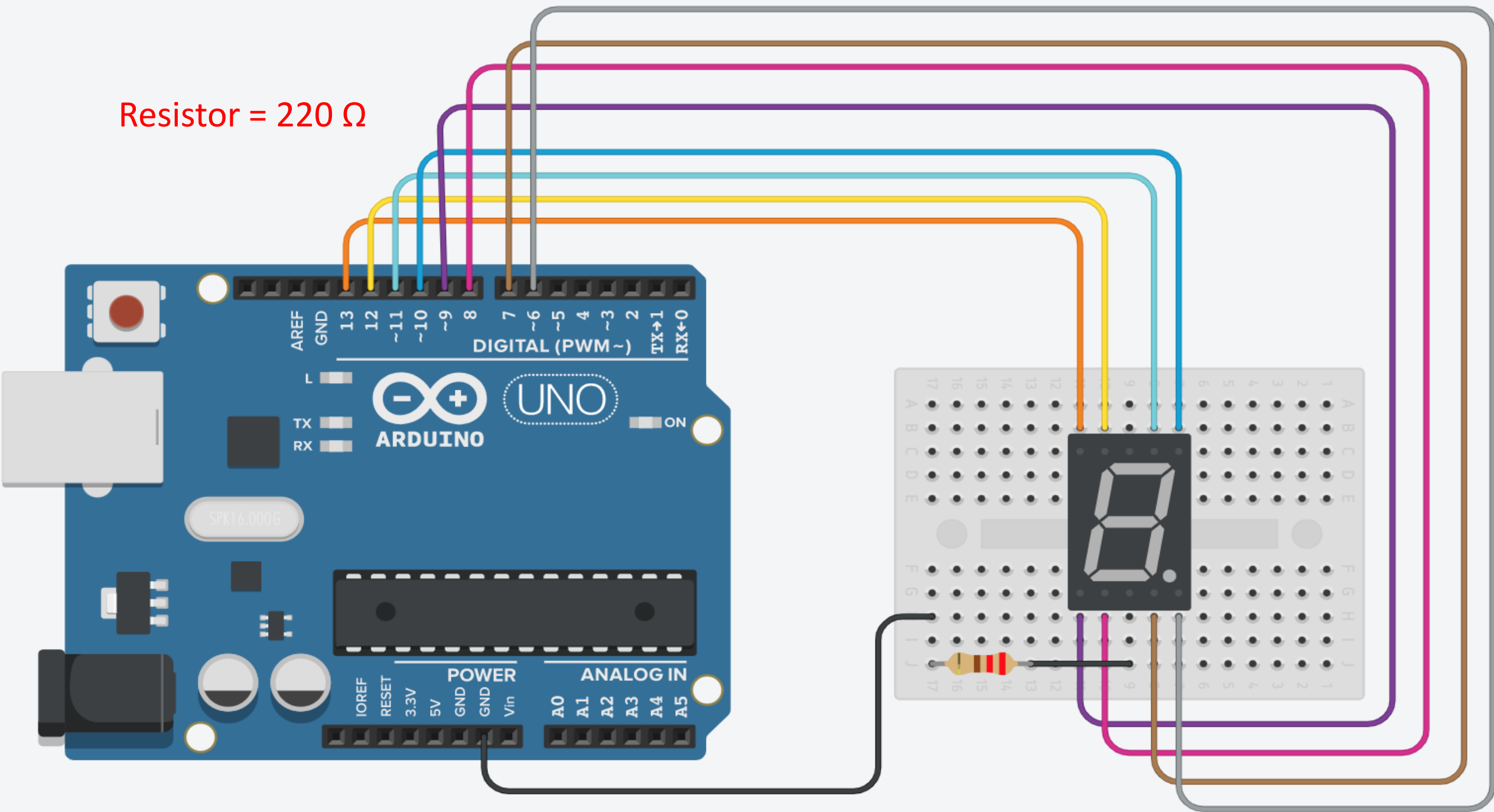
7-Segment Display common Cathode



Mini 7-segment  
display's datasheet

```
void setup() {  
    for(int pin=2; pin <= 9; pin++) {  
        pinMode(pin, OUTPUT);  
        digitalWrite(pin, LOW);  
    }  
}  
  
void loop() {  
    //For example, display number zero  
    int n0[8] = {1,0,1,1,0,1,1,1};  
    for(int pin=2; pin <= 9; pin++) {  
        digitalWrite(pin, n0[pin-2]);  
    }  
}
```

Resistor = 220  $\Omega$



```
unsigned const int G = 13;
unsigned const int F = 12;
unsigned const int A = 11;
unsigned const int B = 10;
unsigned const int E = 9;
unsigned const int D = 8;
unsigned const int C = 7;
unsigned const int DP = 6;
```

```
void setup(void)
{
    pinMode(A, OUTPUT);
    pinMode(B, OUTPUT);
    pinMode(C, OUTPUT);
    pinMode(D, OUTPUT);
    pinMode(E, OUTPUT);
    pinMode(F, OUTPUT);
    pinMode(G, OUTPUT);
    pinMode(DP, OUTPUT);
}
```

```
void zero(void) {
    digitalWrite(A, HIGH);
    digitalWrite(B, HIGH);
    digitalWrite(C, HIGH);
    digitalWrite(D, HIGH);
    digitalWrite(E, HIGH);
    digitalWrite(F, HIGH);
    digitalWrite(G, LOW);
    digitalWrite(DP, LOW);
}
```

```
void loop(void)
{
    zero();
}
```



Counting from  
0 to 9

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