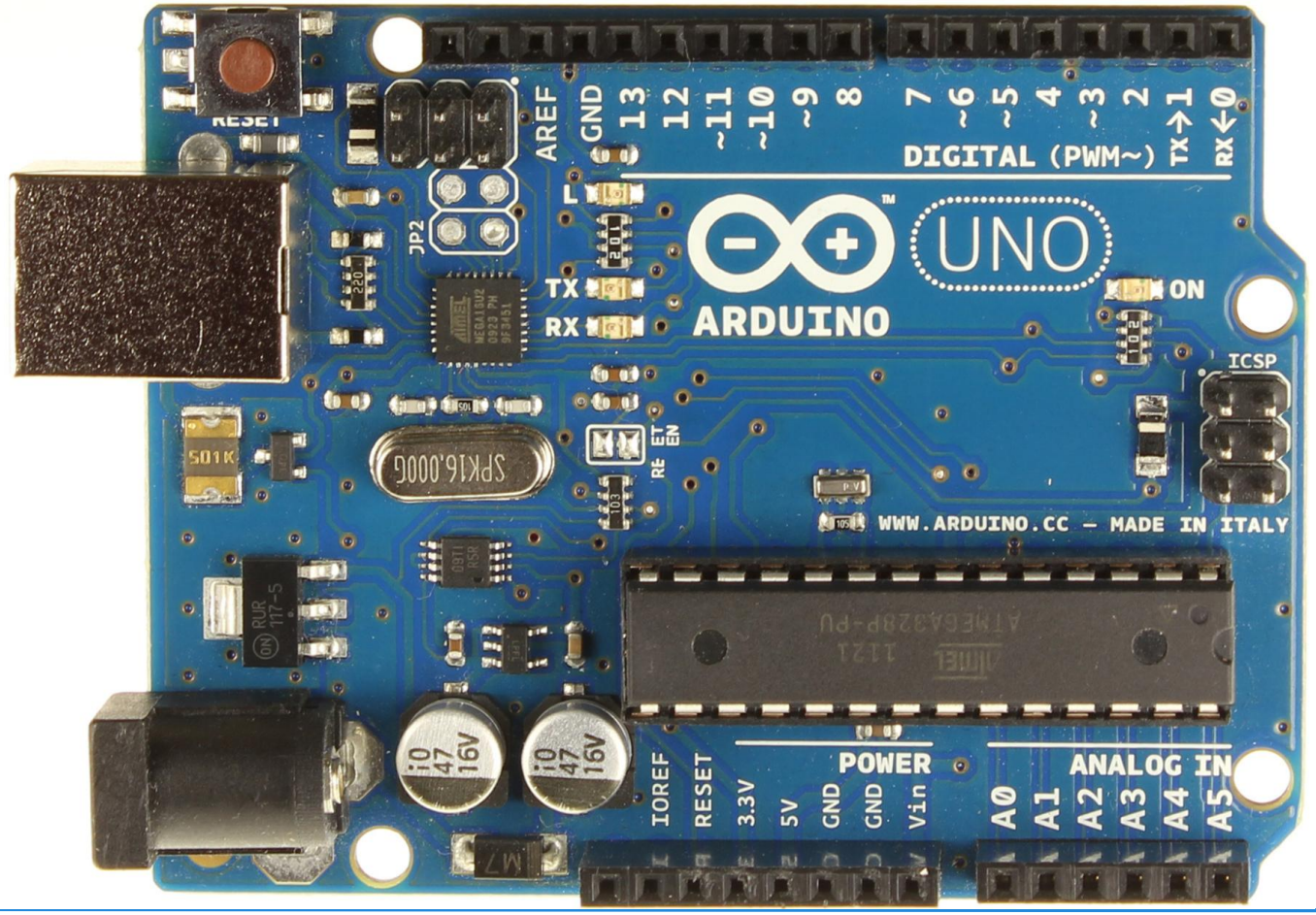
Curso avanzado sobre Arduino: Infrarrojos

ElCacharreo.com

Introducción a Arduino: Presente



Introducción a Arduino: Presente

José Antonio Vacas Martínez

blog

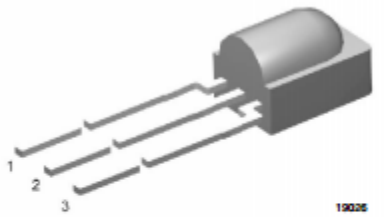
javacasm@elcacharreo.com

twitter
linkedin

Comunicaciones Infrarrojas

38kHz

Comunicaciones Infrarrojas



MECHANICAL DATA

Pinning for TSOP382.., TSOP384..:

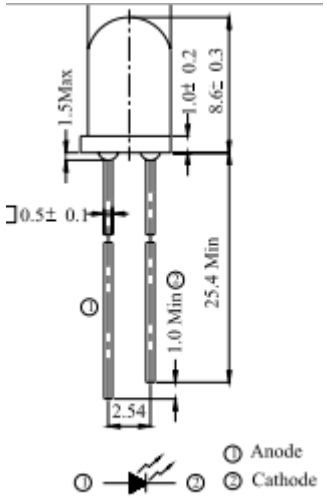
1 = OUT, 2 = GND, 3 = V_S

Pinning for TSOP392.., TSOP394..:

1 = OUT, 2 = V_S, 3 = GND

Receptor
38kHz

PARTS TABLE		
CARRIER FREQUENCY	STANDARD APPLICATIONS (AGC2)	
	PINI	
	1 = OUT, 2 = GND, 3 = V_S	1 = OUT, 2 = V_S, 3 = GND
30 kHz	TSOP38230	TSOP39230
33 kHz	TSOP38233	TSOP39233
36 kHz	TSOP38236	TSOP39236
38 kHz	TSOP38238	TSOP39238
40 kHz	TSOP38240	TSOP39240



Emisor

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Units
Continuous Forward Current	I_F	100	mA
Peak Forward Current	I_{FP}	1.0	A
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +85	℃
Soldering Temperature	T_{sol}	260	℃
Power Dissipation at(or below) 25℃ Free Air Temperature	P_d	150	mW

Notes: *1:I_{FP} Conditions--Pulse Width≦100 μs and Duty≦1%.

Comunicaciones Infrarrojas

Librería: IRremote

```
#include <IRremote.h>

IRsend irsend;

// Sony TV power code
irsend.sendSony(0xa90, 12);
```

```
#include <IRremote.h>

int RECV_PIN = 11;

IRrecv irrecv(RECV_PIN);

decode_results results;

void setup()
{   Serial.begin(9600);
  irrecv.enableIRIn(); // Start the receiver}

void loop() {
  if (irrecv.decode(&results)) {
    Serial.println(results.value, HEX);
  irrecv.resume(); // Receive the next value   }
}
```

https://github.com/shirriff/Arduino-IRremote

Conclusiones

Gracias por vuestra atención