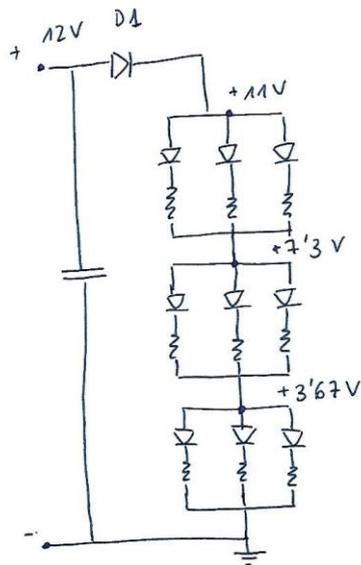


Luz Freno Trasera Seat Ibiza 2008

Manuel Osuna Siekmann 75573254S

Cálculo de la potencia que consume el circuito con tolerancias



→ LEDs

LNJ8L4C28 RAA

$$I_F = 50 \text{ mA}$$

$$V_F \rightarrow 2'05 \sim 2'65 \text{ V}$$

$$\text{typ (2'30)}$$

→ resistencias

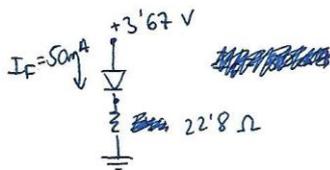
$$24 \Omega \quad 5\%$$

$$\text{casos extremos } (22'8 \Omega - 25'2) \Omega$$

→ D1

1N4001

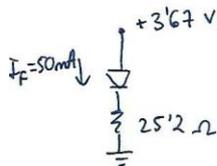
$$\text{con } V_F = 1 \text{ V}$$



$$P_R = V_R \cdot I_F = I_F^2 \cdot R = 57 \text{ mW}$$

$$P_{RT} = 513 \text{ mW}$$

$$V_R = 1'14 \text{ V} \rightarrow V_F = 2'53 \text{ V}$$



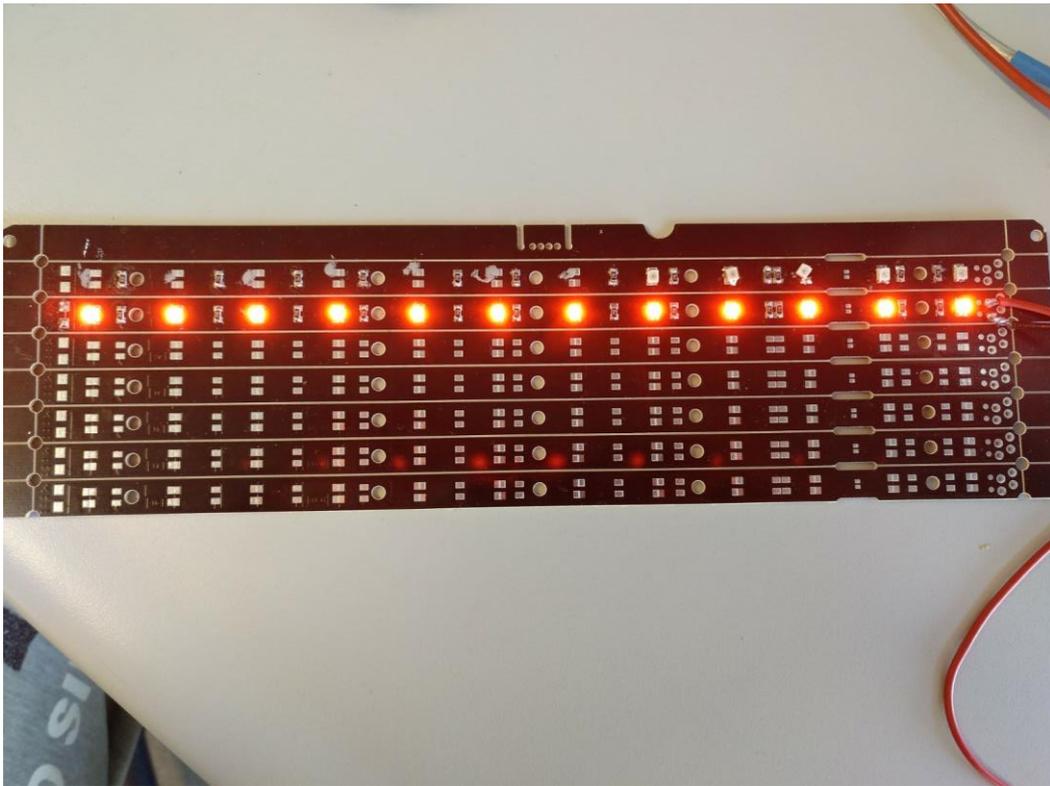
$$P_R = V_R \cdot I_F = I_F^2 \cdot R = 63 \text{ mW}$$

$$P_{RT} = 567 \text{ mW}$$

$$V_R = 1'26 \rightarrow V_F = 2'41 \text{ V}$$

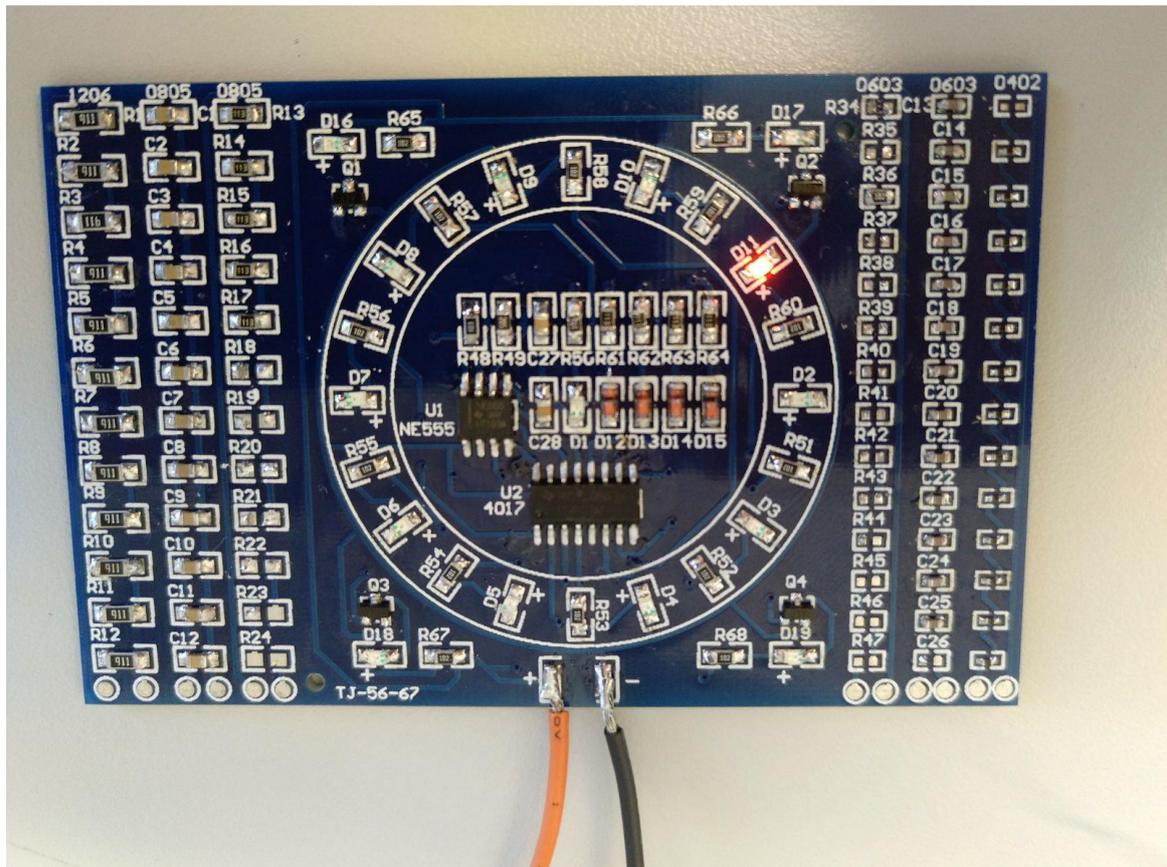
$$\text{consumo total de corriente } I_T = 150 \text{ mA} \rightarrow (50 \cdot 3) \text{ mA}$$

Imágenes de la tira funcionando

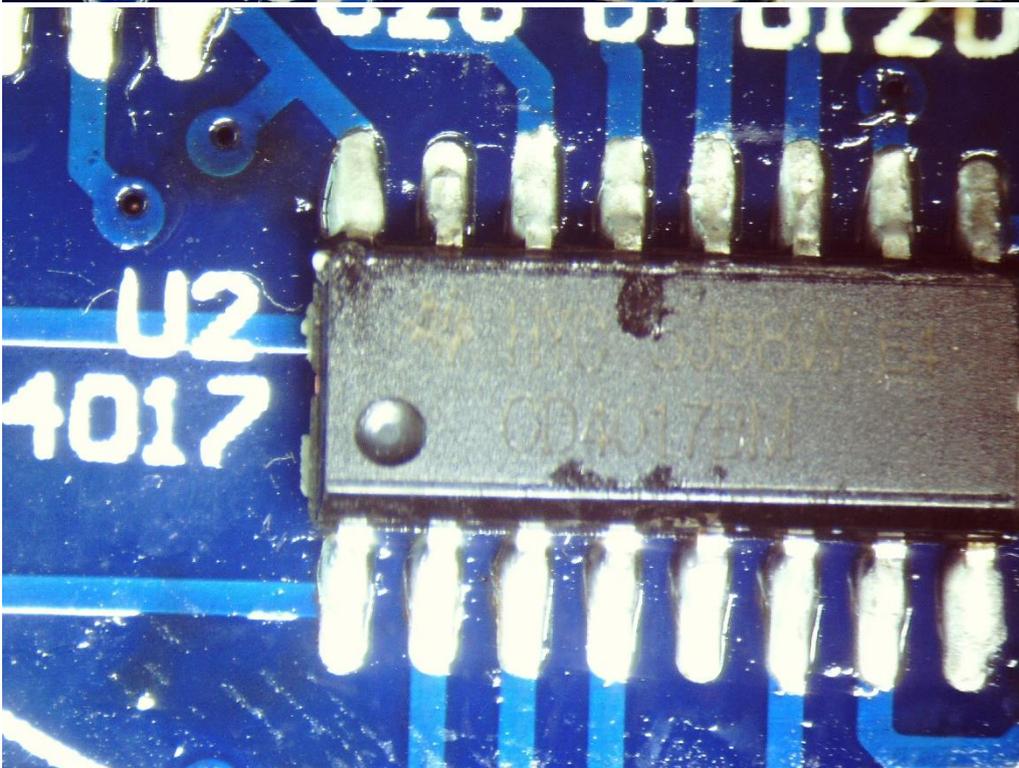
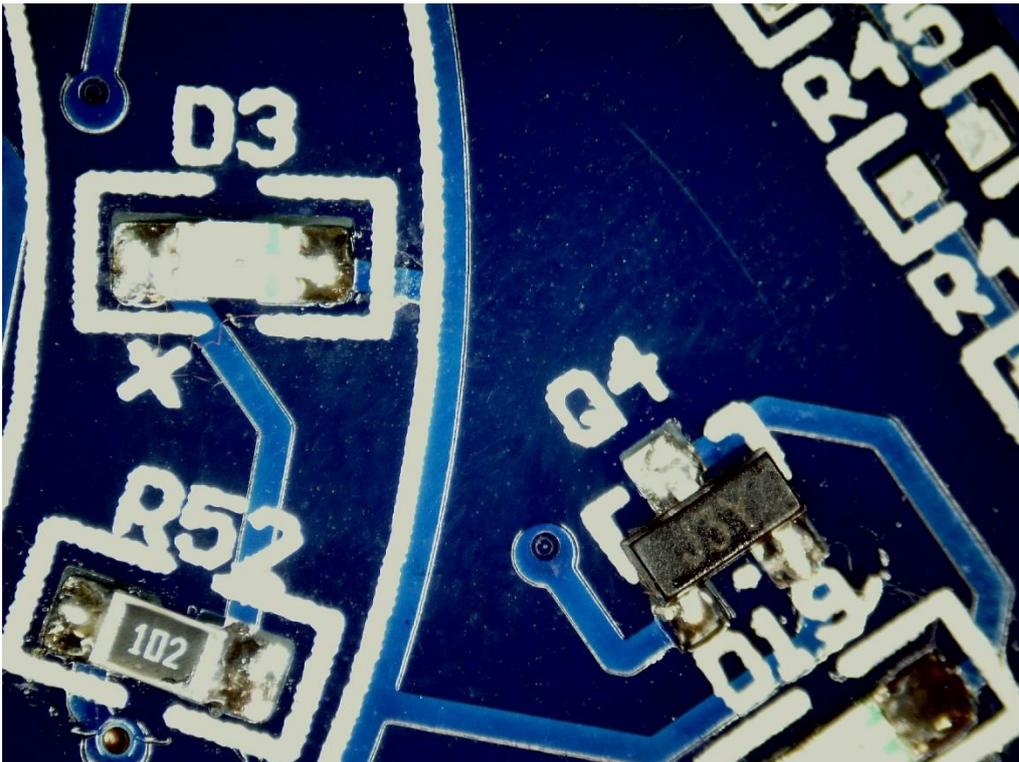


Placa iniciación soldadura SMT

Imágenes de la placa funcionando



Imágenes de las soldaduras



0402

