MICS6814 3-in-1 Gas Sensor Breakout (CO, NO2, NH3) (PIM569)

Breakout connector and reverse protection

LDO for heater and sensor power

RGB LED

MCU

MICS6814 Analog NO2 & CO & NH3 Sensor

OX (NO2):
- R3 resistor target current: 26mA
- R3 resistor selection: \(\frac{(3.3V-1.7V)}{.026A} \approx 61.5\) ohm
- R3 resistor power: \(.026A \times .026A \times 61.5\) ohm = 41mW

RED (CO):
- R8 resistor target current: 32mA
- R8 resistor selection: \(\frac{(3.3V-2.4V)}{.032A} \approx 28.1\) ohm
- R8 resistor power: \(.032A \times .032A \times 28.1\) ohm = 29mW

NH3:
- R15 resistor target current: 30mA
- R15 resistor selection: \(\frac{(3.3V-2.2V)}{.03A} \approx 36.7\) ohm
- R15 resistor power: \(.03A \times .03A \times 36.7\) ohm = 33mW

Cap Shared with LDO