Diodes

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Link to the spreadsheet with the data : 📊 IV Values

$$n = \frac{\ln I_{D1} - \ln I_{D2}}{(V_{D2} - V_{D1}) \cdot V_T}$$

where $V_T = \frac{kT}{q}$. Taking $T = 30°C = 303K$,

$$V_T = 26.1 \, mV$$

$$n_{Green} = 1.465$$

$$n_{Red} = 1.782$$

$$n_{4148} = 1.899$$