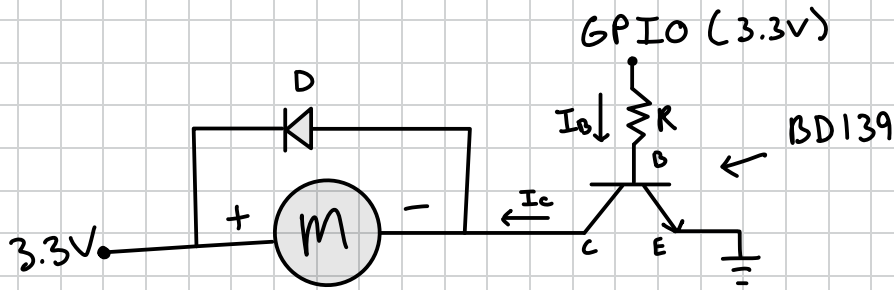


# Vibration Motor

2/27/2025

Requirements 2.5-3.5V, 80mA max



- Went  $I_c \approx 80\text{mA}$   
↳ saturation  $\rightarrow I_b = 8\text{mA}$
- $V_{be} \approx 1\text{V}$  (data sheet)

$$R = \frac{3.3 - V_{be}}{I_b} = \frac{3.3 - 1}{8\text{mA}} = 287.5$$

↓

**$R = 270\Omega$**

↳ lower R

- higher  $I_b$
- Still saturates

(insignificant difference)

$$I_b = \frac{3.3 - 1}{270} = 8.52\text{mA}$$