

Sin wave freq $\rightarrow 50 \text{ Hz}$

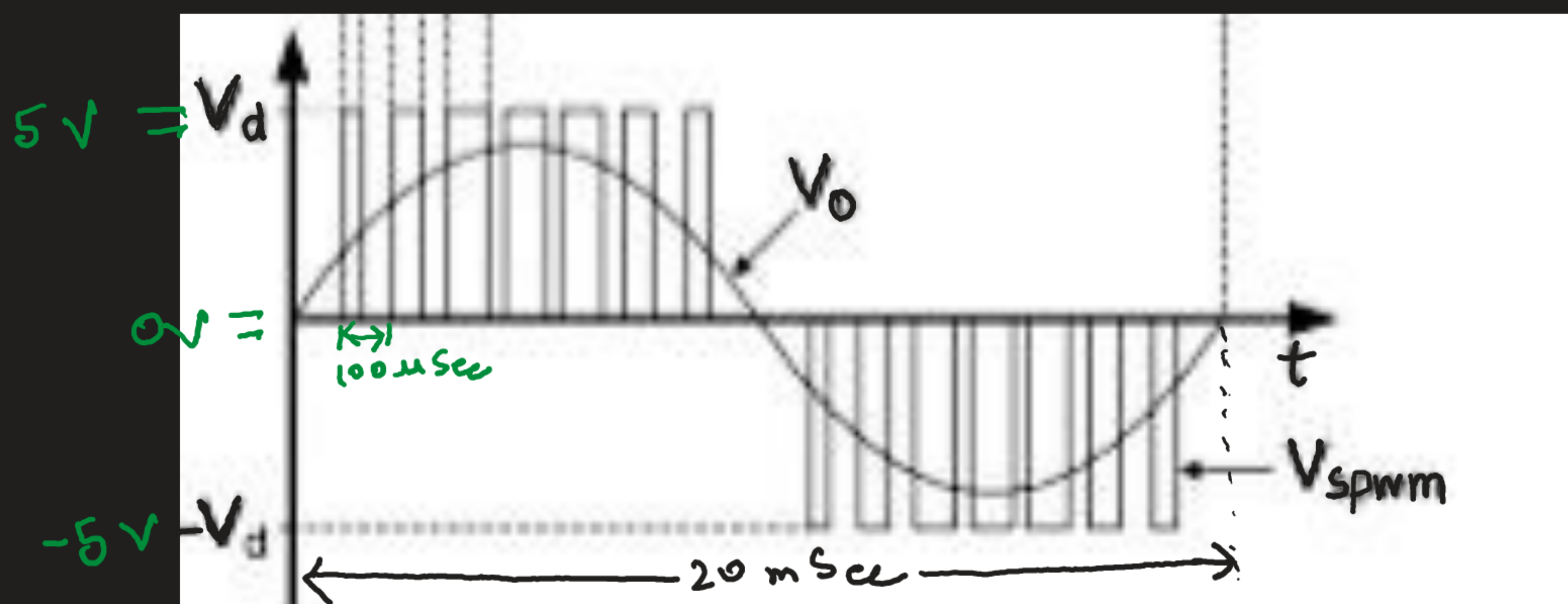
$$f = 50 \text{ Hz}$$

$$T = 20 \text{ mSec}$$

$$\frac{T}{2} = 10 \text{ mSec}$$

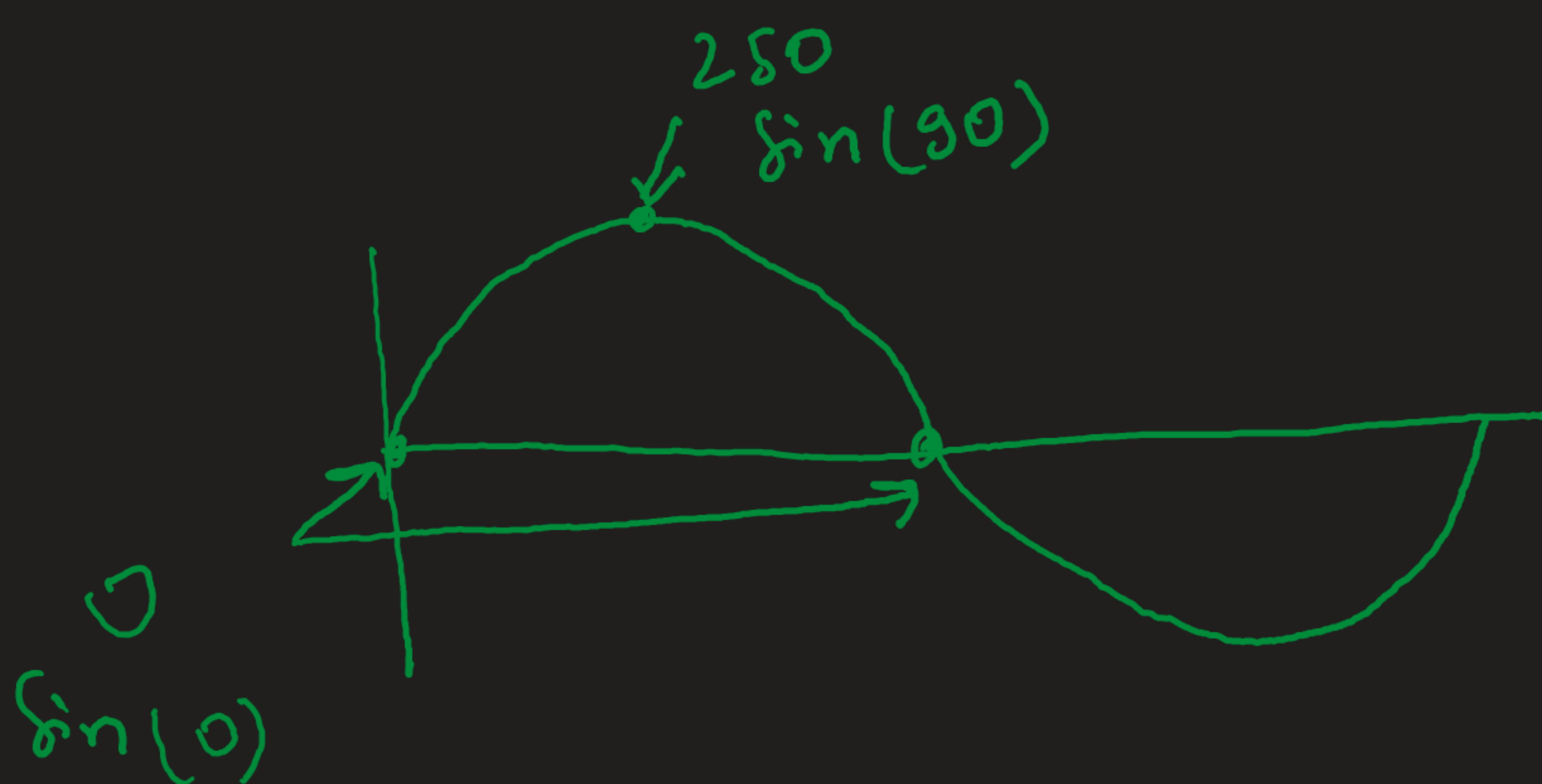
we only generate for half cycle and it is used for both +ve and -ve cycle.

H-Bridge serves the purpose to generate -ve or +ve cycle.



$$\text{PWM frequency} = 20 \text{ kHz}$$

$$T = 50 \mu\text{Sec}$$

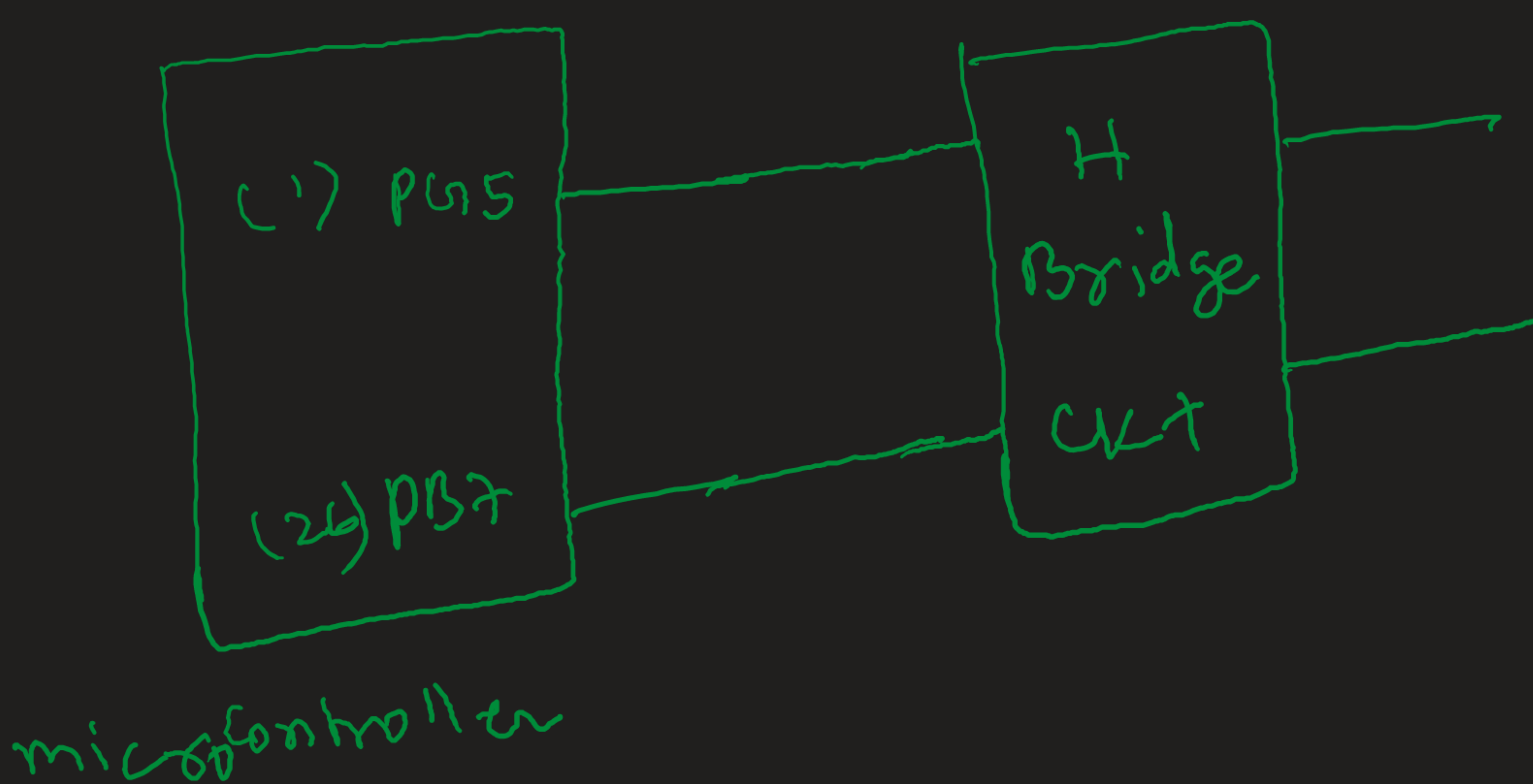


$$\text{Max duty cycle} = 255$$

$$\text{recommended} = 250 \text{ for tolerance}$$

$$\text{Min duty cycle} = 0$$

$$\text{recommended} = 7.85 \text{ for tolerance.}$$



$$\text{PB7} \rightarrow \text{OC0A}$$

$$\text{PB5} \rightarrow \text{OC0B}$$

$$\text{duty cycle} - 0 \text{ to } 250$$

$$\text{Interval} - 5$$

$$\Rightarrow 0, 5, 10, 15, \dots, 250$$