

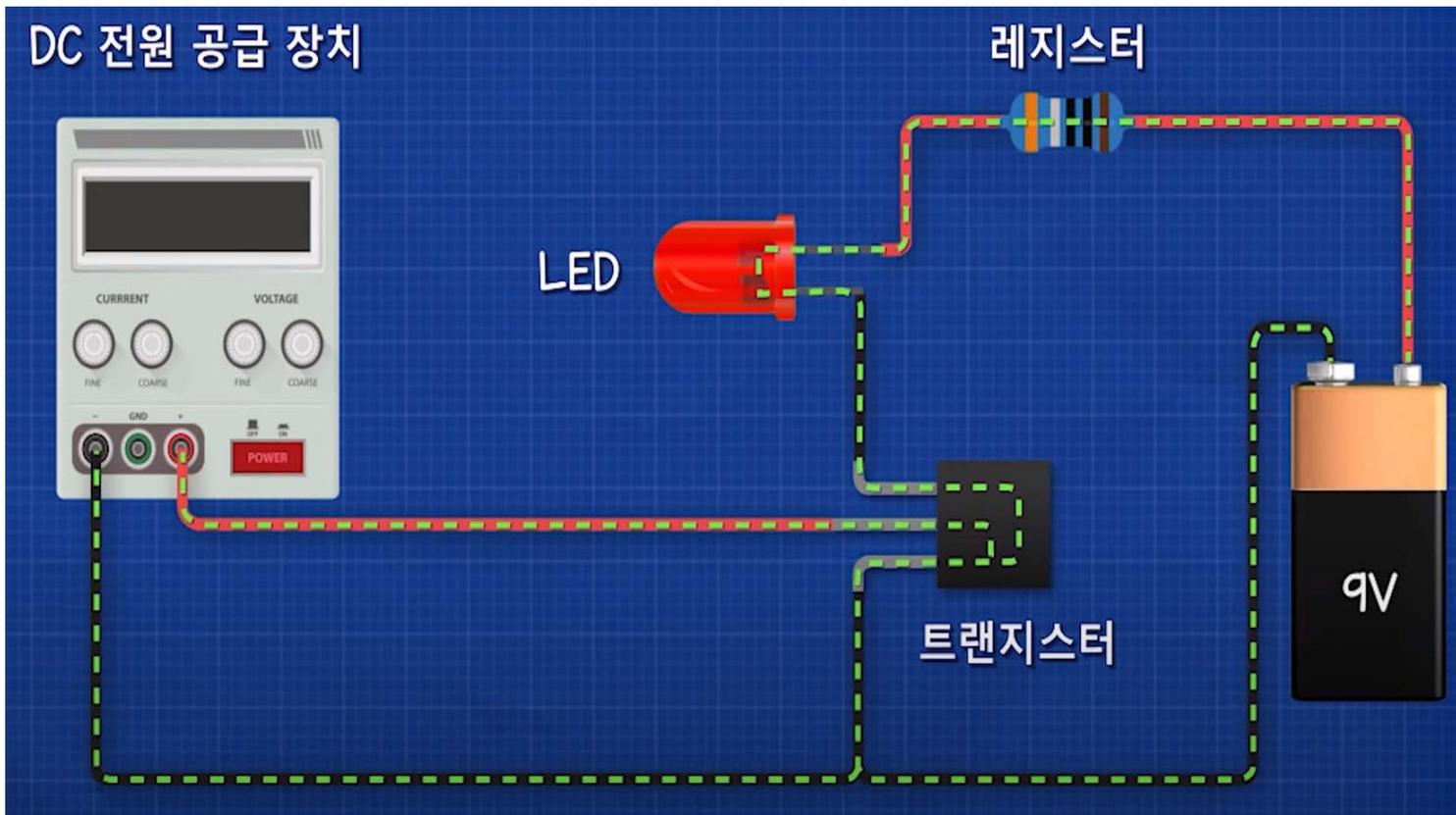
# DC 전원 공급 장치

# 레지스터

LED

트랜지스터

9V



0.5볼트

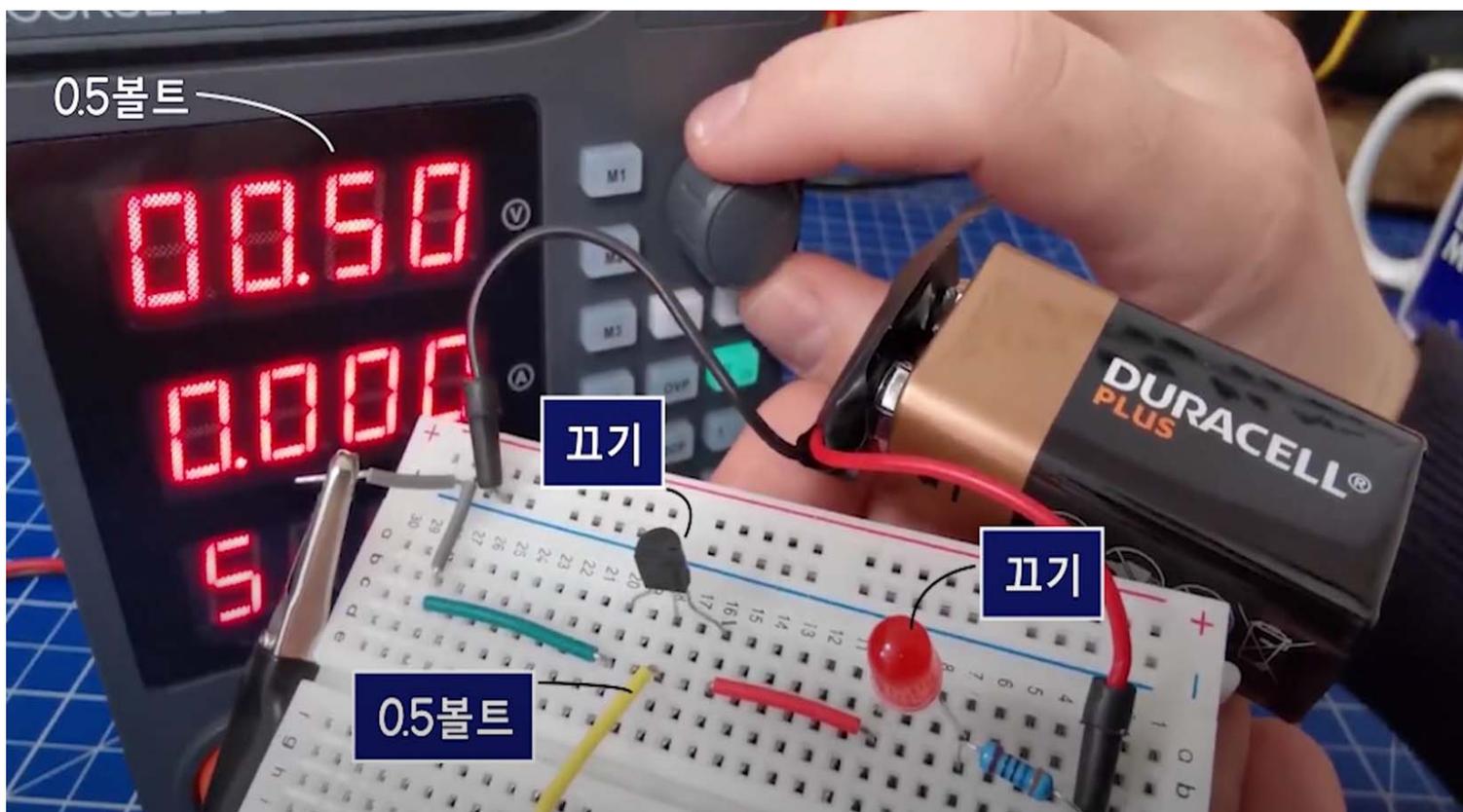
00.50

0.000

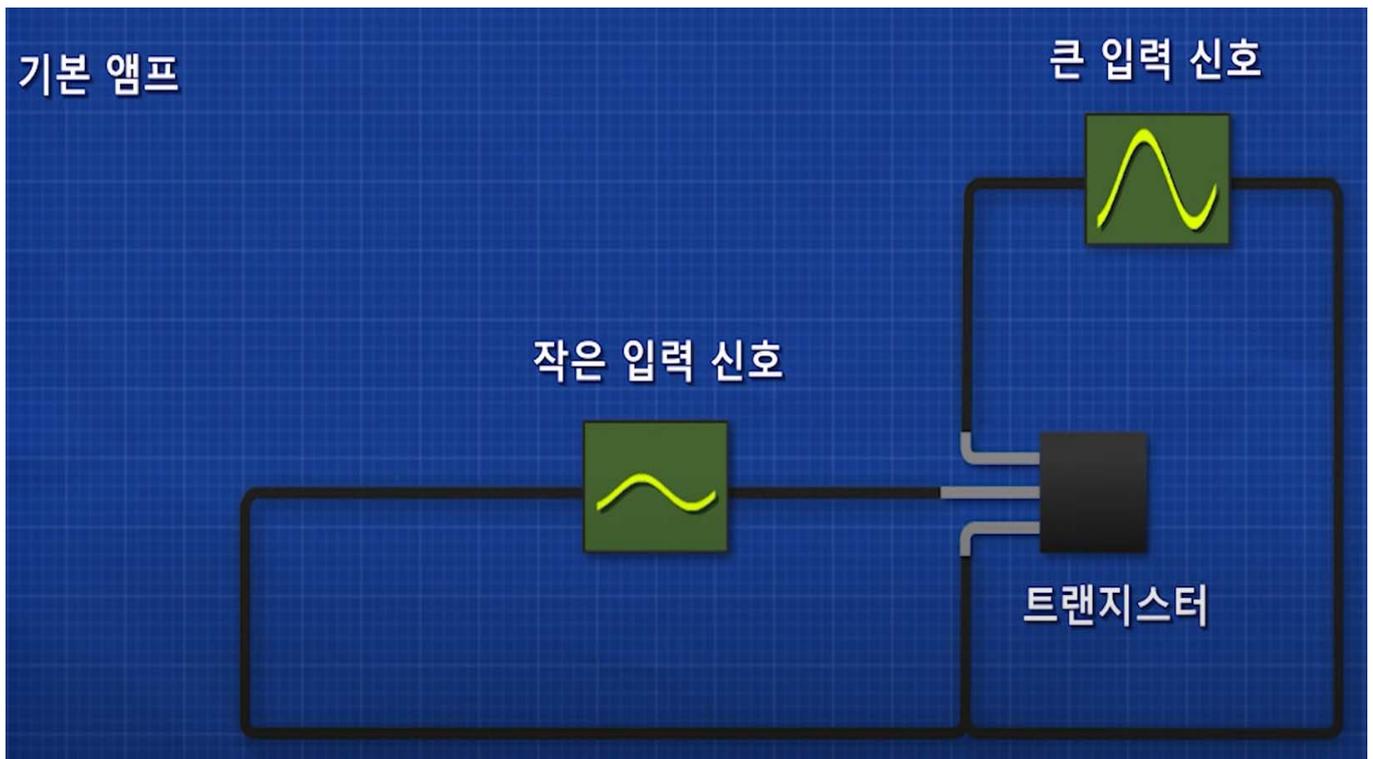
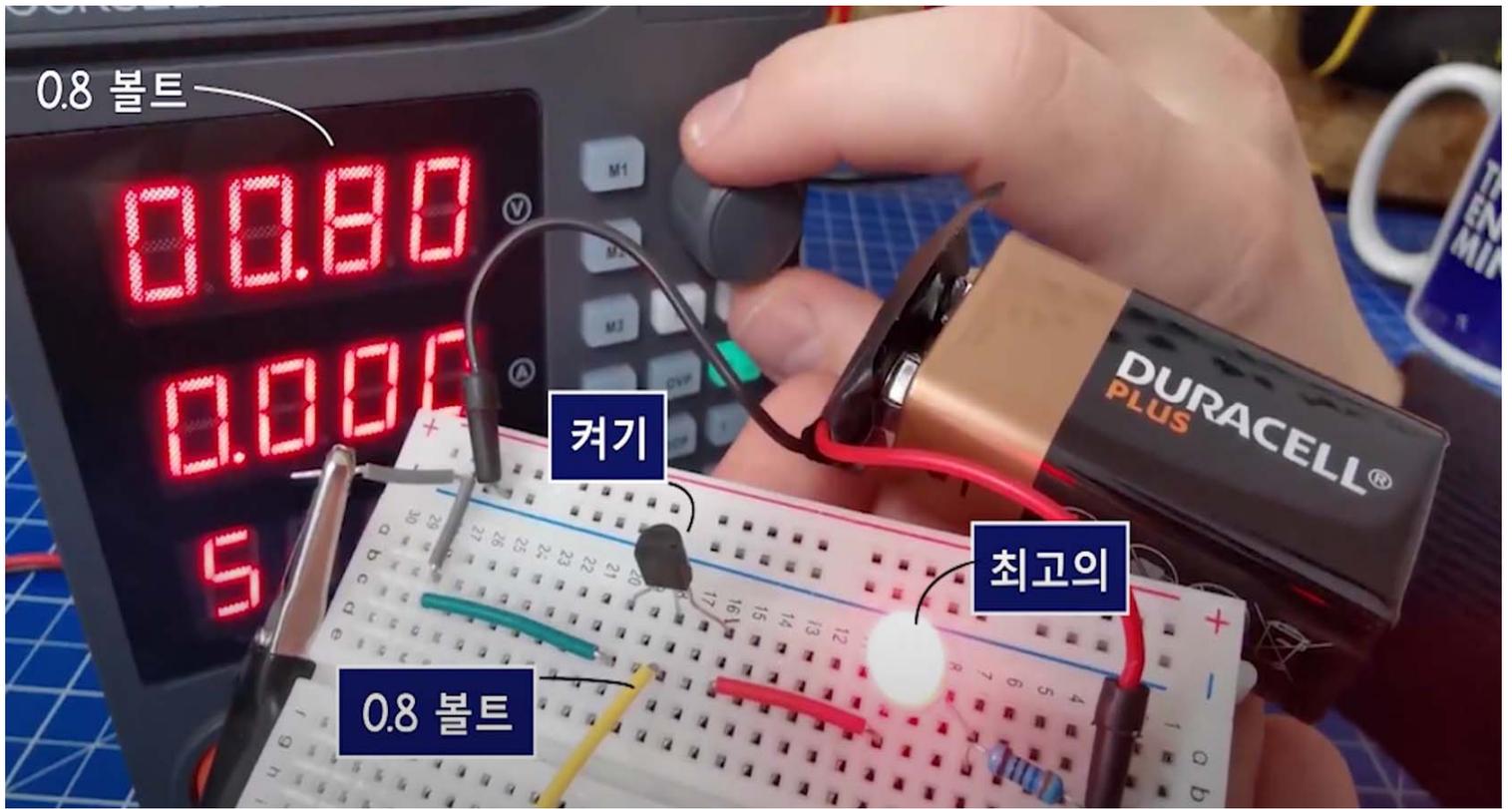
0.5볼트

끼기

끼기





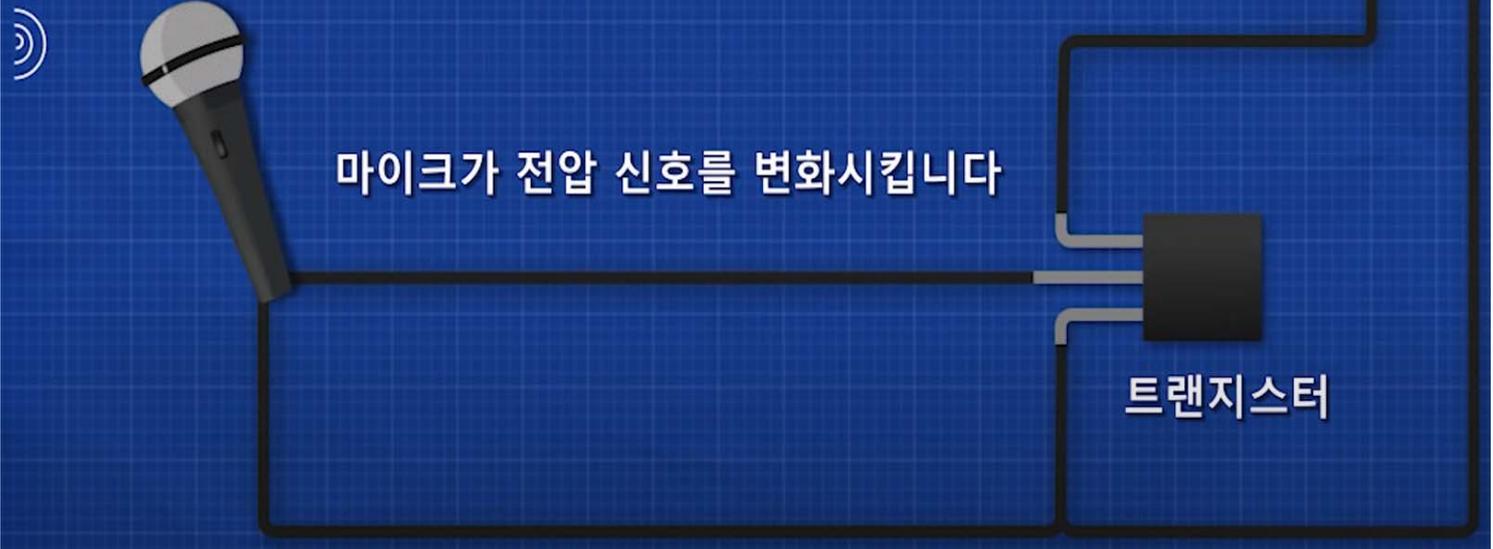


기본 앰프

스피커가 신호를 증폭시킵니다

마이크가 전압 신호를 변화시킵니다

트랜지스터



전류 게인

$$\beta = \frac{\text{집전기 전류}}{\text{베이스 전류}}$$

작은 베이스 전류

1mA

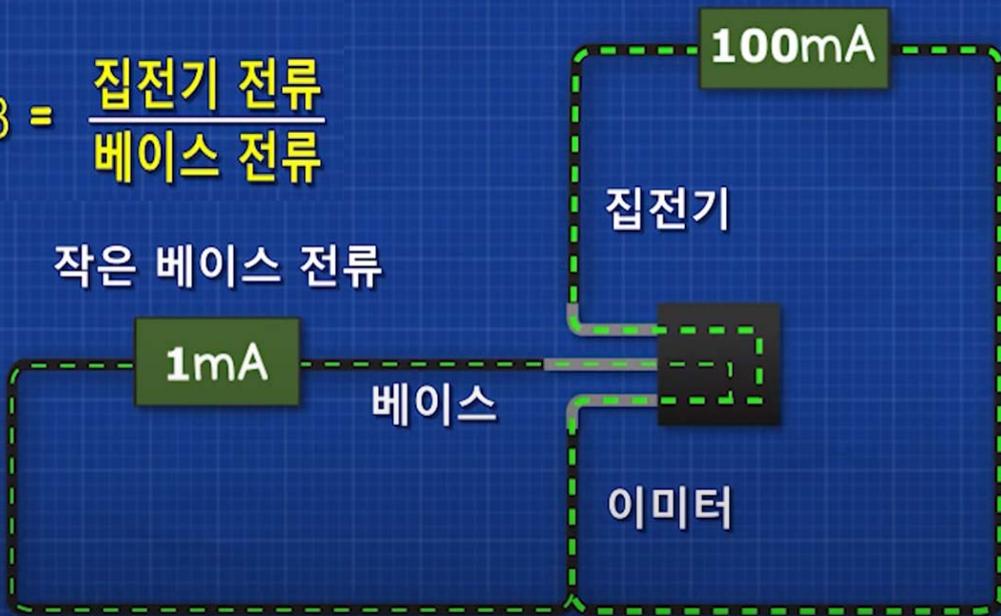
베이스

큰 집전기 전류

100mA

집전기

이미터

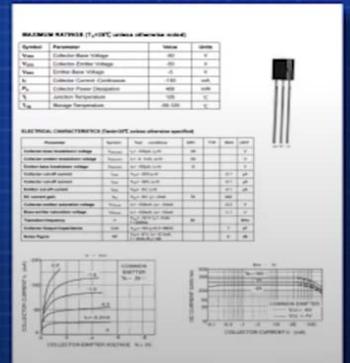


전류 게인

$$\beta = \frac{\text{집전기 전류}}{\text{베이스 전류}}$$

$$\beta = \frac{100\text{mA}}{1\text{mA}}$$

$\beta = 100$   
데이터 시트의 목록



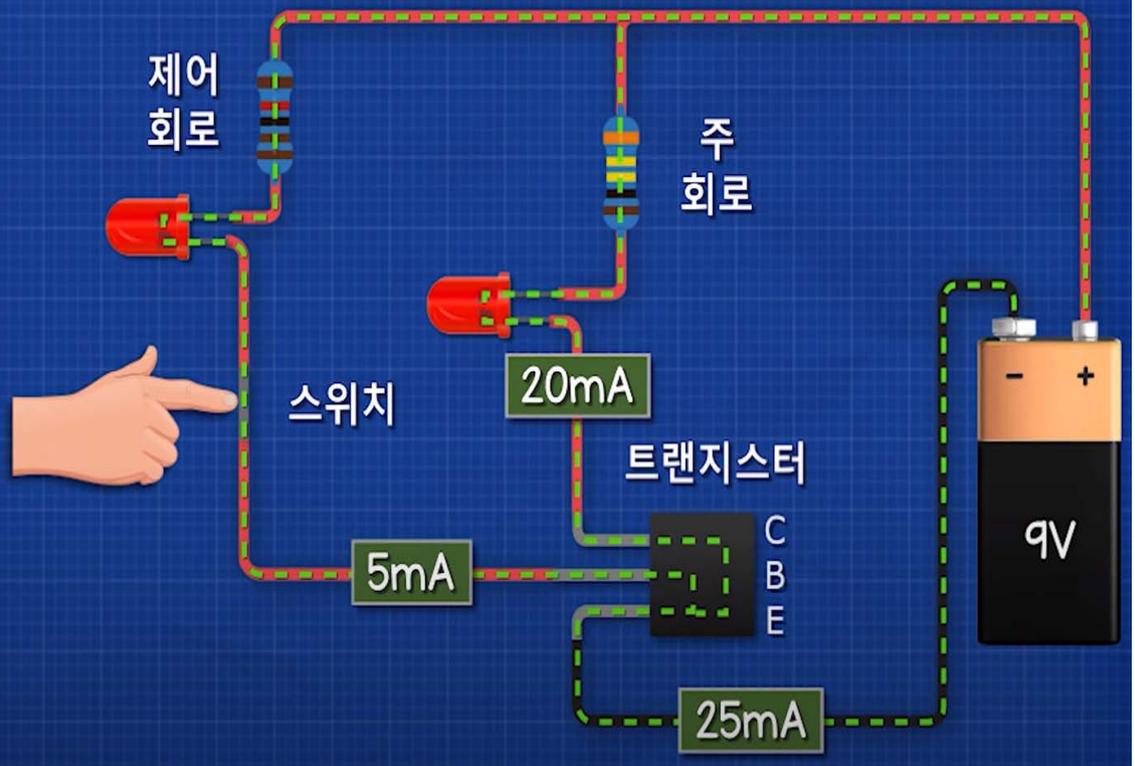
공식 정리

$$\beta = \frac{\text{집전기 전류}}{\text{베이스 전류}}$$

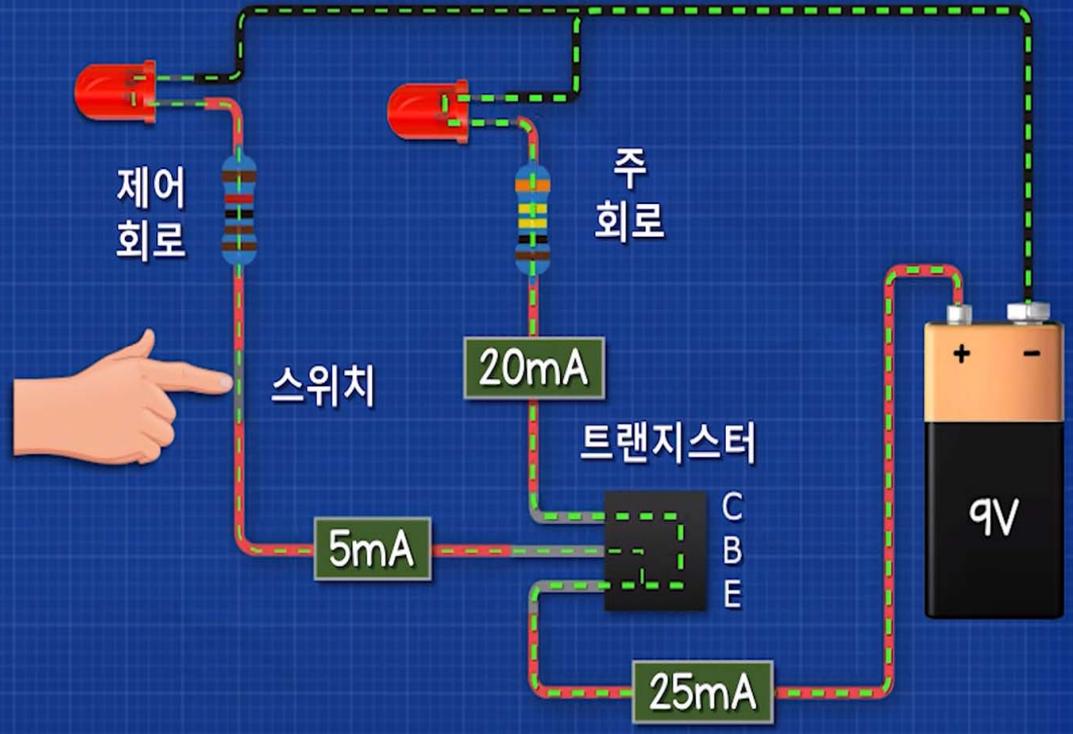
$$\text{집전기 전류} = \beta \times \text{베이스 전류}$$

$$\text{베이스 전류} = \frac{\text{집전기 전류}}{\beta}$$

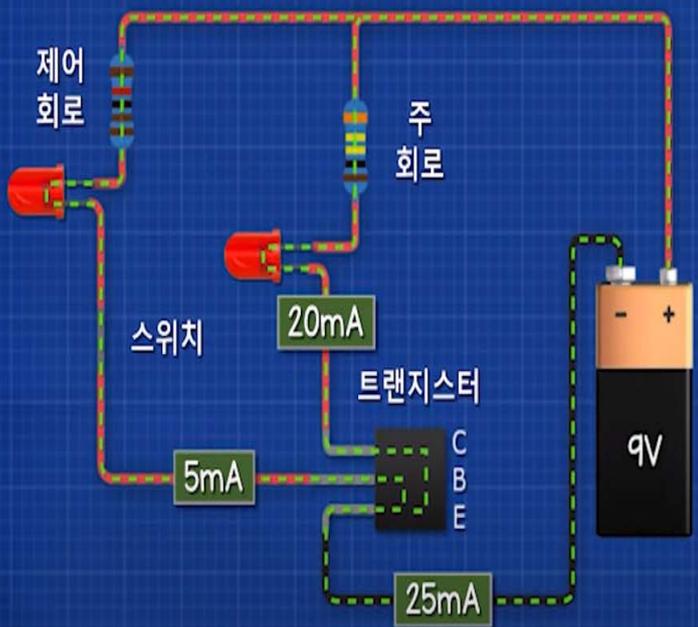
NPN 트랜지스터



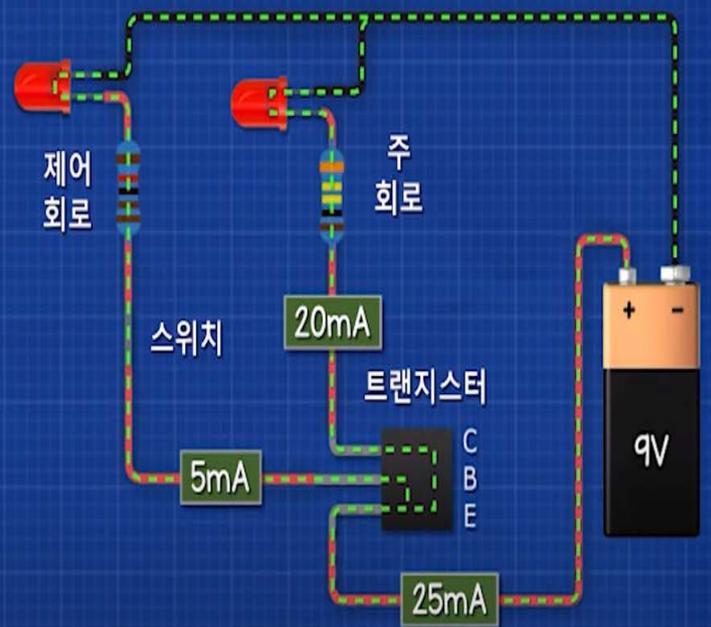
# PNP 트랜지스터



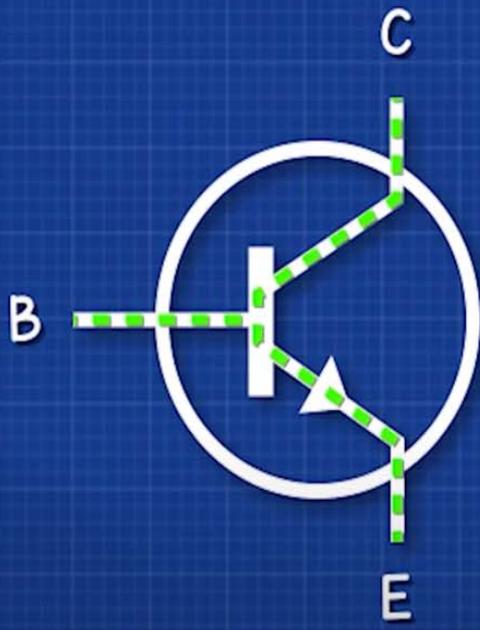
# NPN



# PNP



NPN



PNP

