

POWER AMPLIFIER - CURRENT / VOLTAGES

Q1 is Class C, FM Transmitter

VSUPPLY = 9.5 VOLTS MAXIMUM - ASSUME FRESH ALKALINE BATTERIES

Measured voltage drop across R8 = 4.46 volts

$$I = E/R = 4.46 / 100 \text{ OHM} = 45 \text{ mA peak current to collector of Q1}$$

$$\text{Power input to Q1} = I * E = 45\text{E-3} * (9.5 - 4.5) = 225 \text{ mW}$$



