

10-1)

a) For the elementary MOSFET drive circuit, losses can be determined from the energy absorbed by the transistor. In Probe, the integral of instantaneous power is obtained by entering the expression $S(W(M1))$ to get the energy absorbed by the transistor. For turn-off losses, restrict the data to 2.5 μs to 4.3 μs . The energy absorbed is 132 μJ . For turn-on losses, restrict the data to 5 μs to 5.6 μs . The energy absorbed by the MOSFET is 53.3 μJ . Power is determined as

$$T = \frac{1}{f_s} = \frac{1}{20000} = 5 \mu\text{s}$$

$$P_{\text{turn-off}} = \frac{W}{T} = \frac{132 \mu\text{J}}{5 \mu\text{s}} = 26.4 \text{ W}$$

$$P_{\text{turn-on}} = \frac{W}{T} = \frac{53.3 \mu\text{J}}{5 \mu\text{s}} = 10.7 \text{ W}$$

For the emitter-follower drive circuit restrict the data to 2.5 μs to 2.9 μs , giving 21.3 μJ for turn-off. Restrict the data to 5 μs to 5.3 μs , giving 12.8 μJ for turn-on. Power is then

$$P_{\text{turn-off}} = \frac{W}{T} = \frac{21.3 \mu\text{J}}{5 \mu\text{s}} = 4.26 \text{ W}$$

$$P_{\text{turn-on}} = \frac{W}{T} = \frac{12.8 \mu\text{J}}{5 \mu\text{s}} = 2.56 \text{ W}$$

b) For the first circuit, peak gate current is 127 mA, average gate current is zero, and rms gate current is 48.5 mA. For the second circuit, peak gate current is 402 mA (and -837 mA), average gate current is zero, and rms gate current is 109 mA.

10-2)

For $R_1 = 75 \Omega$, $t_{\text{off}} \approx 1.2 \mu\text{s}$, $t_{\text{on}} \approx 0.6 \mu\text{s}$, and $P_{\text{MOS}} \approx 30 \text{ W}$.

For $R_1 = 50 \Omega$, $t_{\text{off}} \approx 0.88 \mu\text{s}$, $t_{\text{on}} \approx 0.42 \mu\text{s}$, and $P_{\text{MOS}} \approx 22 \text{ W}$.

For $R_1 = 25 \Omega$, $t_{\text{off}} \approx 0.54 \mu\text{s}$, $t_{\text{on}} \approx 0.24 \mu\text{s}$, and $P_{\text{MOS}} \approx 14 \text{ W}$.

Reducing drive circuit resistance significantly reduces the switching time and power loss for the MOSFET.

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