

# 模拟电子技术(Ch08作业)

9.1.1 甲类放大电路导通角为整个周期( $360^\circ$ )

乙类放大电路导通角为 $180^\circ$

甲乙类放大电路中导通角大于 $180^\circ$

乙类放大电路的效率最高

9.3.2 (原电路图略)

(1) 已知  $V_{CES}$  近似为 0

$$\therefore V_{om} = V_{oc} = 12V$$

$$\therefore P_{om} = \frac{V_{om}^2}{2R_L} = 45W \quad (3) |V_{(BR)CEO}| > 2V_{cc} = 24V$$

(2) 已知  $V_{om} = V_{cc} = 12V$

$$\therefore P_T = \frac{V_{om}^2}{R_L} \left( \frac{1}{\pi} - \frac{1}{4} \right) \approx 0.615W$$

9.4.1 (原电路图略)

$\therefore V_{CEO}$  平忽略

$$\therefore P_{om} = \frac{(V_{cc}/2)^2}{2R_L} = 9W$$

解得  $V_{cc} = 24V$

$$\therefore V_{cc} \geq 24V$$