

GATE 1990 PAPER



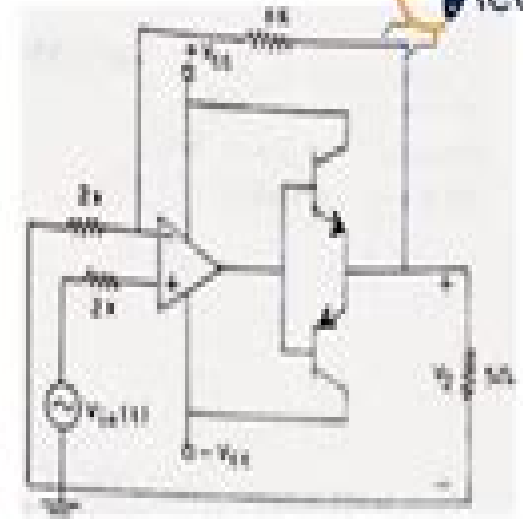
A pick up signal is power amplified using a complementary symmetry push pull amplifier and fed to a $5\ \Omega$ loud speaker as shown.

The specifications of power transistors are as follows:

I_{Cmax} = Maximum collector current = 2 Amps and P_{Cmax} = Maximum power dissipation = 1 Watt.

Find the maximum power delivered to the loud speaker, if the maximum output voltage subject to OP-AMP voltage limitations is 15 volts.

If the transistors are mounted on a heat sink, so that P_{Cmax} changes to 3 Watts. What will be the new value of the maximum power delivered?



Since the output of opamp is max 15 V

The output power of power amplifier is

$$P(ac) = \frac{V_m^2}{2 R_L}$$

$$V_m = 15V \text{ and } R_L = 5 \quad P(ac) = 22.5 \text{ Watt}$$

$$\begin{aligned} P(dc) &= \text{DC input power} = V_{cc} \left(\frac{2 I_m}{\pi} \right) \quad \text{if } V_m = V_{cc} \\ &= \frac{2 (V_{cc}^2)}{\pi R_L} \\ &= 28.648 \text{ Watt} \end{aligned}$$

$$P_d(max) = P(dc) - P(ac)$$

$$= 28.648 - 22.5$$

$$= 6.148 \text{ W}$$

this is total power dissipated by 2 transistor

$$P_d \text{ of 1 transistor} = 3.074 \text{ Watt}$$

ANS: Breakdown of transistor as selected transistor $P_d = 1$ watt and required is $P_d > 3.074$ Watt

With use of heat sink there is improvement of $P_d = 3$ Watt still less than required hence again there will be breakdown



How Solve Power Amplifier Problem By Floyd

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How Solve Power Amplifier Problem By Floyd:

Decoding **How Solve Power Amplifier Problem By Floyd**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**How Solve Power Amplifier Problem By Floyd**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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