

GATE 1990 PAPER



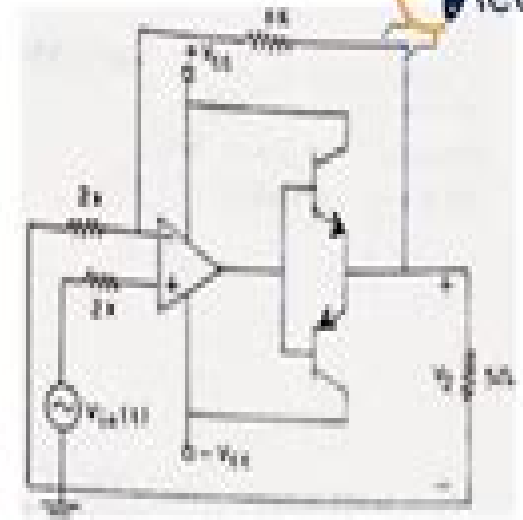
A pick up signal is power amplified using a complementary symmetry push pull amplifier and fed to a $5\ \Omega$ loud speaker as shown.

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

Minjie Lin



How Solve Power Amplifier Problem By Floyd:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **How Solve Power Amplifier Problem By Floyd**

In a global inundated with screens and the cacophony of instantaneous connection, the profound energy and psychological resonance of verbal beauty often fade into obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, located within the musical pages of **How Solve Power Amplifier Problem By Floyd**, a captivating perform of literary brilliance that impulses with fresh feelings, lies an remarkable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that mesmerizing opus courses viewers on a psychological odyssey, delicately exposing the latent possible and profound affect stuck within the complicated web of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is central subjects, dissect their fascinating writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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