

GATE 1990 PAPER



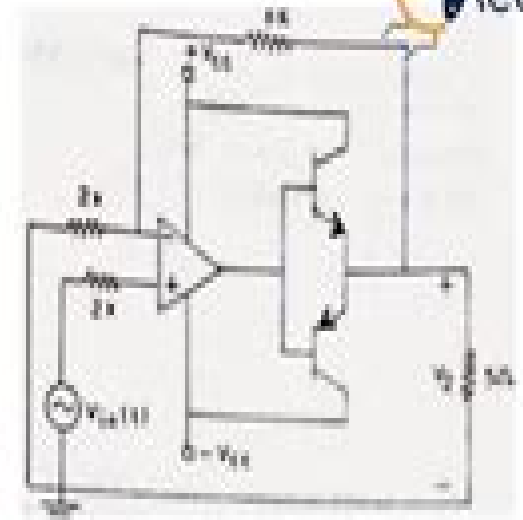
A pick up signal is power amplified using a complementary symmetry push pull amplifier and fed to a $5\ \Omega$ loud speaker as shown.

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

R Bogdan



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