

GATE 1990 PAPER



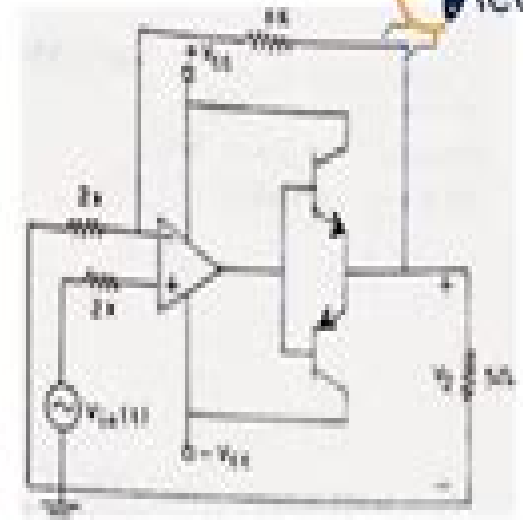
A pick up signal is power amplified using a complementary symmetry push pull amplifier and fed to a $5\ \Omega$ loud speaker as shown.

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

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

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

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

$$\begin{aligned} P_d(max) &= P(dc) - P(ac) \\ &= 28.648 - 22.5 \\ &= 6.148 \text{ W} \end{aligned}$$

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



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CL Gary



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Table of Contents How Solve Power Amplifier Problem By Floyd

1. Understanding the eBook How Solve Power Amplifier Problem By Floyd
 - The Rise of Digital Reading How Solve Power Amplifier Problem By Floyd
 - Advantages of eBooks Over Traditional Books
2. Identifying How Solve Power Amplifier Problem By Floyd
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an How Solve Power Amplifier Problem By Floyd
 - User-Friendly Interface
4. Exploring eBook Recommendations from How Solve Power Amplifier Problem By Floyd

- Personalized Recommendations
- How Solve Power Amplifier Problem By Floyd User Reviews and Ratings
- How Solve Power Amplifier Problem By Floyd and Bestseller Lists
- 5. Accessing How Solve Power Amplifier Problem By Floyd Free and Paid eBooks
 - How Solve Power Amplifier Problem By Floyd Public Domain eBooks
 - How Solve Power Amplifier Problem By Floyd eBook Subscription Services
 - How Solve Power Amplifier Problem By Floyd Budget-Friendly Options
- 6. Navigating How Solve Power Amplifier Problem By Floyd eBook Formats
 - ePub, PDF, MOBI, and More
 - How Solve Power Amplifier Problem By Floyd Compatibility with Devices
 - How Solve Power Amplifier Problem By Floyd Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of How Solve Power Amplifier Problem By Floyd
 - Highlighting and Note-Taking How Solve Power Amplifier Problem By Floyd
 - Interactive Elements How Solve Power Amplifier Problem By Floyd
- 8. Staying Engaged with How Solve Power Amplifier Problem By Floyd
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers How Solve Power Amplifier Problem By Floyd
- 9. Balancing eBooks and Physical Books How Solve Power Amplifier Problem By Floyd
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection How Solve Power Amplifier Problem By Floyd
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine How Solve Power Amplifier Problem By Floyd
 - Setting Reading Goals How Solve Power Amplifier Problem By Floyd
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of How Solve Power Amplifier Problem By Floyd

- Fact-Checking eBook Content of How Solve Power Amplifier Problem By Floyd
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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