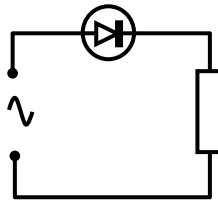


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The rate of heat dissipation of a resistor connected to an a.c. supply is P .



An ideal diode is then connected in series with the resistor.



What is the new rate of heat dissipation of the resistor?

A

$\frac{P}{8}$

B

$\frac{P}{4}$

C

$\frac{P}{2}$

D P



