KNOWN: Width, surface emissivity and maximum allowable temperature of an electronic chip. Temperature of air and surroundings. Convection coefficient.

FIND: (a) Maximum power dissipation for free convection with $h(W/m^2 \cdot K) = 4.2(T \cdot T_{\infty})^{1/4}$, (b) Maximum power dissipation for forced convection with $h = 250 \text{ W/m}^2 \cdot K$.

SCHEMATIC:



ASSUMPTIONS: (1) Steady-state conditions, (2) Radiation exchange between a small surface and a large enclosure, (3) Negligible heat transfer from sides of chip or from back of chip by conduction through the substrate.

ANALYSIS: Subject to the foregoing assumptions, electric power dissipation by the chip must be balanced by convection and radiation heat transfer from the chip. Hence, from Eq. (1.10),

$$P_{elec} = q_{conv} + q_{rad} = hA(T_s - T_{oo}) + \varepsilon A\sigma(T_s^4 - T_{sur}^4)$$

where $A = L^2 = (0.015 \text{m})^2 = 2.25 \times 10^{-4} \text{m}^2$.

(a) If heat transfer is by natural convection,

$$\begin{split} q_{conv} &= C \; A \left(T_S - T_{oo} \right)^{5/4} = 4.2 \; W/m^2 \cdot K^{5/4} \left(2.25 \times 10^{-4} \, \text{m}^2 \right) \! \left(60 K \right)^{5/4} = 0.158 \; W \\ q_{rad} &= 0.60 \! \left(2.25 \times 10^{-4} \, \text{m}^2 \right) \! 5.67 \times 10^{-8} \; W/m^2 \cdot K^4 \left(358^4 - 298^4 \right) \! K^4 = 0.065 \; W \end{split}$$

1

$$P_{elec} = 0.158 \text{ W} + 0.065 \text{ W} = 0.223 \text{ W}$$

(b) If heat transfer is by forced convection,

$$q_{conv} = hA (T_s - T_{co}) = 250 \text{ W/m}^2 \cdot \text{K} (2.25 \times 10^{-4} \text{m}^2) (60 \text{K}) = 3.375 \text{ W}$$

$$P_{cloc} = 3.375 \text{ W} + 0.065 \text{ W} = 3.44 \text{ W}$$

COMMENTS: Clearly, radiation and natural convection are inefficient mechanisms for transferring heat from the chip. For $T_s = 85^{\circ}\text{C}$ and $T_{\infty} = 25^{\circ}\text{C}$, the natural convection coefficient is $11.7 \text{ W/m}^2 \cdot \text{K}$. Even for forced convection with $h = 250 \text{ W/m}^2 \cdot \text{K}$, the power dissipation is well below that associated with many of today's processors. To provide acceptable cooling, it is often necessary to attach the chip to a highly conducting substrate and to thereby provide an additional heat transfer mechanism due to conduction from the back surface.

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