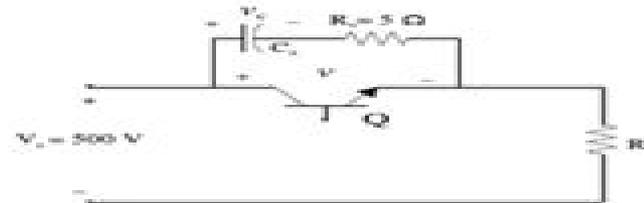


EENG441 SOLVED PROBLEMS

P1-) The transistor Q in the chopper shown below has a maximum (dv/dt) rating of $50 \text{ V}/\mu\text{s}$. It is used to supply a resistive load of $R_L = 100 \ \Omega$. Find the snubber capacitance C_s required to protect the transistor for dv/dt , when it is turned off. Assume that the transistor is turned off at $t=0$, and $v_c(0)=0$.



Solution:

The solution for the capacitor voltage after Q is turned off:

$$v_c(t) = V_s(1 - e^{-t/\tau}) \quad \tau = (R_s + R_L)C_s$$

$$i = C_s \frac{dv_c}{dt} = \frac{V_s}{R_s + R_L} e^{-t/\tau} \quad \Rightarrow \quad v(t) = V_s - R_L i = V_s \left[1 - \frac{R_L}{R_s + R_L} e^{-t/\tau} \right]$$

$$\begin{aligned} \frac{dv}{dt} &= V_s \frac{R_L}{C_s (R_s + R_L)^2} e^{-t/\tau} \quad \Rightarrow \quad \left(\frac{dv}{dt} \right)_{\text{max}} = V_s \frac{R_L}{C_s (R_s + R_L)^2} = \frac{9.8765}{C_s} = 50 \text{ V}/\mu\text{s} = 50 \times 10^6 \text{ V/s} \\ \Rightarrow \quad C_s &= 0.1975 \ \mu\text{F} \end{aligned}$$

Alternatively, the voltage across Q can be solved directly from the eqn. $x(t) = x(\infty) + [x(0) - x(\infty)]e^{-t/\tau}$

$$v(\infty) = v_c(\infty) = V_s \quad v(0^+) = R_L i(0^+) = R_L \frac{V_s}{R_s + R_L} \quad \tau = (R_s + R_L)C_s$$

$$\Rightarrow v(t) = V_s + \left[V_s \frac{R_L}{R_s + R_L} - V_s \right] e^{-t/\tau} = V_s \left[1 - \frac{R_L}{R_s + R_L} e^{-t/\tau} \right]$$

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