

7.2 .

$$v_e = V_e \sin \omega t \implies v_s \text{ sinusoidal}$$

$$s_r = \left( \frac{dv_s}{dt} \right)_{\max} \implies v_s = V_e \sin \omega t$$

$$\left( \frac{dv_s}{dt} \right)_{\max} = V_e \omega = V_e \cdot 2\pi f$$

$$\implies f_{\max} \neq 50 \text{ kHz}$$

$$\text{si } f = 400 \text{ kHz} \quad V_e \omega = 1,5 \text{ V}/\mu\text{s} \implies V_{e_{\max}} = 600 \text{ mV}$$