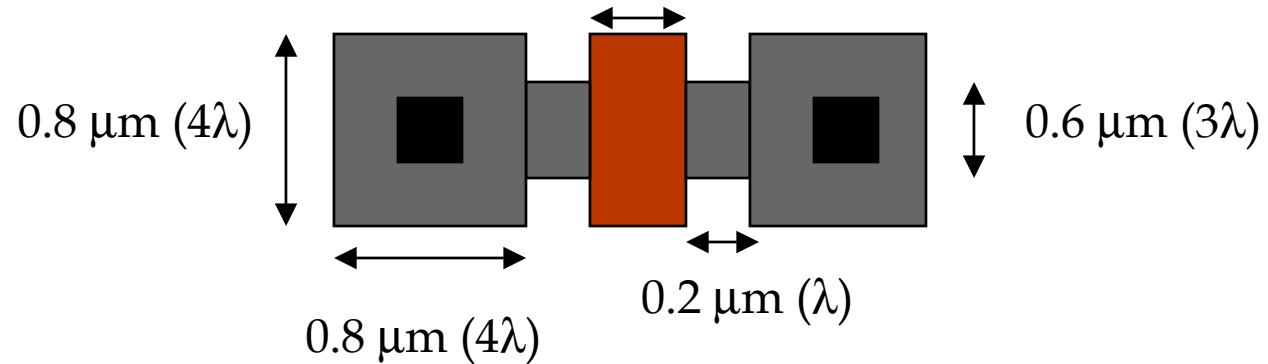


Example

Example using these equations (0.35 μm technology)

- Assume $\lambda = 0.2 \mu\text{m}$ (gate is $0.4 \mu\text{m}$ as drawn) $0.4 \mu\text{m}$ (2λ)



Drain or Source Capacitance = area * CJ + external-perimeter * CJSW *Change!*

$$= (0.6*0.2 + 0.8*0.8)E-12 * 5E-4 + (0.8*3+0.2)E-6 * 2E-10$$

$$= 0.38 + 0.52 = 0.9 \text{ fF}$$

Gate Capacitance ($L_{\text{actual}} = 0.35 \mu\text{m}$) =