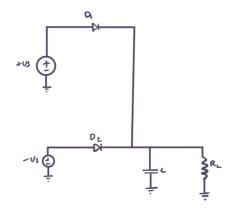
Pre-Lab 6: Diodes

ECEN 325 - 511

TA: Zhiyong Zhang

Due Date: October 19, 2021

## Calculations



Output should be 
$$3V(um)$$

I'm 3 m A

109. of max right,

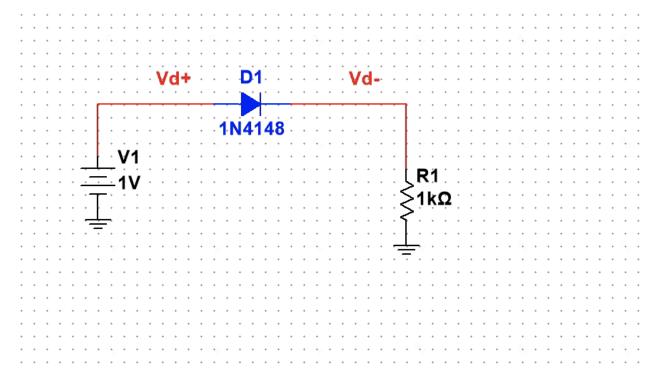
 $f = 250H_L$ 
 $V_U = 0.70$ 

Lood Resistence = 
$$\frac{V_m}{I_m} = \frac{3V}{0.003R} = \frac{R_L = 1 \text{ k.r.}}{R_L = 1 \text{ k.r.}}$$

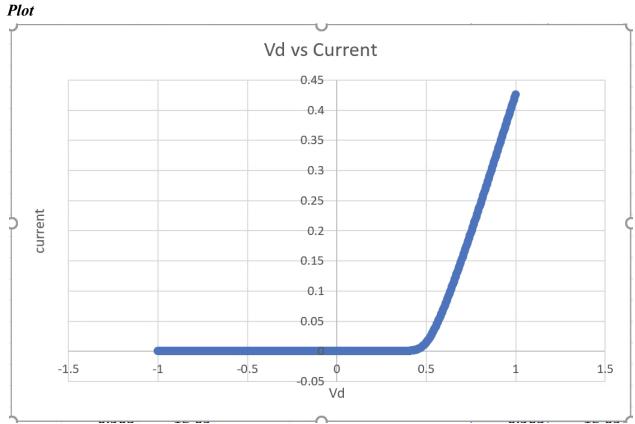
$$V_{f} = 0.1 \times 3V = 0.3V$$
 $V_{P} = 3 + 0.3 = 3.3V$ 
 $V_{S} = V_{P} + V_{d} = 3.3 + 0.7 = 4V$ 
 $V_{S} = 4V$ 

# Simulations (on Multisim)

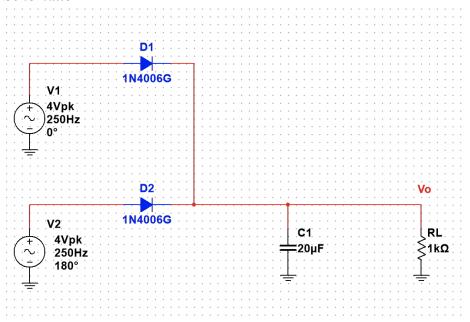
## Schematic







#### Schematic



#### Transient

