

ECE101-1L - FUNDAMENTALS OF ELECTRONIC CIRCUITS (LAB)

Activity #8: JFET Amplifier

Objectives:

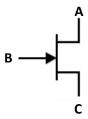
- Use Multisim to demonstrate the JFET Amplifier
- Measure the JFET amplifier voltage gain and its characteristics

Procedures:

A. Multisim

DC Characteristics of JFET

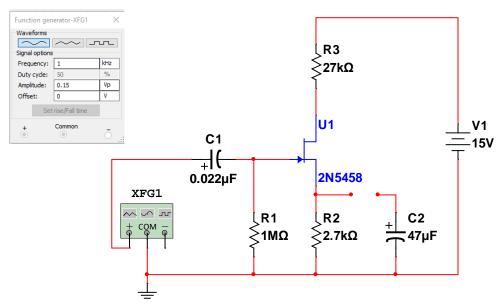
1. Identify the PIN Name of the JFET



2. Identify the Type of JFET shown below



3. Using Multisim create the schematic shown below, and change the function generator settings as shown below.





 4. Using Oscilloscope measure and record the drain voltage (Note: reading should be about 0.24 Volts peak-to-peak) Screenshot the final oscilloscope output: 						
7.	Connect the bypassed capacitor and run the simulation					

8. Using Oscilloscope measure and record the new drain voltage Screenshot the final oscilloscope output:

9. Calculate and record the ac circuit voltage gain (Av = Vo/Vi).

10. Does the Gain increase or decrease when bypassed capacitor is connected?



Discussions:			