

Figure 5-2

6. Use the data of Tables 5-1 and 5-2 to draw the diode curve ( $V$  versus  $I$ ) on Graph 5-1.
7. The foregoing steps prove that the diode conducts easily in the forward direction and poorly in the reverse direction. Using the second approximation for a diode, calculate the diode current in Figs. 5-2a and b. Record the calculations in Table 5-3.
8. Build the circuit of Fig. 5-2a (forward bias). Measure and record the diode current in Table 5-3.
9. Build the circuit of Fig. 5-2b (reverse bias). Measure and record the diode current.

### TROUBLESHOOTING

10. Build the circuit of Fig. 5-3. Using the second approximation for a diode, calculate the load voltage  $V_L$  and record in Table 5-4. Then measure and record  $V_L$ .
11. Short the diode with a jumper wire. Calculate  $V_L$  for this condition and record in Table 5-4. Measure and record  $V_L$ .
12. Remove the jumper wire. Disconnect one end of the diode. Calculate  $V_L$  and record. Next, measure and record  $V_L$ .



Figure 5-3

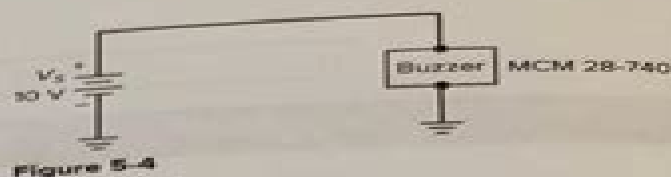


Figure 5-4

### CRITICAL THINKING

13. Select a source voltage and a current-limiting resistance to produce 10 mA in Fig. 5-1a. (Use the resistors from earlier parts of the experiment.) Build the circuit and measure the current. Record the values of  $V_S$  and  $R_S$ , along with the measured  $I$ , in Table 5-5.

### APPLICATION (OPTIONAL)

14. Connect the circuit of Fig. 5-4 using a magnetic buzzer equivalent to the MCM Electronics 28-740, which has the following specifications: 3 to 28-V dc input and 8-mA load current at 12 V dc. Notice that the buzzer is polarized, so the positive source terminal must be connected to the red lead and the negative source terminal to the black lead. An audible buzz should be present.
15. Examine Fig. 5-5. Should the buzzer work? Build the circuit of Fig. 5-5 to verify the expected result.
16. Repeat Step 15 for the circuit of Fig. 5-6.

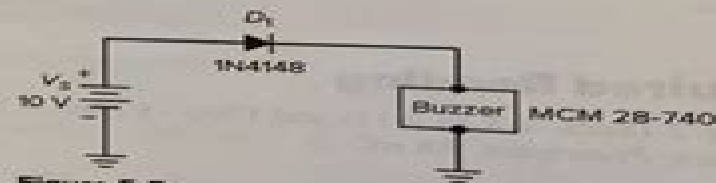


Figure 5-5

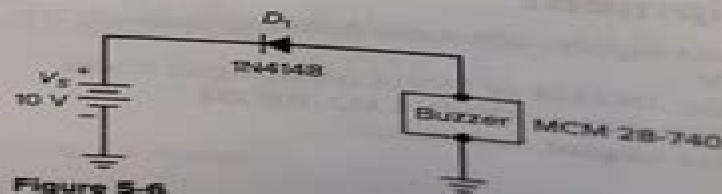


Figure 5-6

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**RJ Shavelson**



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