



WORKSHEET 1-4

Using a Digital Multimeter: Diode Check

Worksheet Objectives

In this worksheet, you will practice using a digital multimeter (DMM) to check a diode. When you have completed this worksheet, you will be able to use a DMM to check diodes for proper operation.

Tools and Equipment

For this exercise you will need the following:

- Diode (PN 1350)
- Digital multimeter

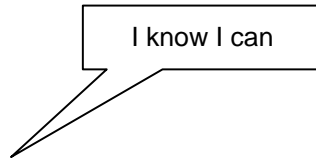
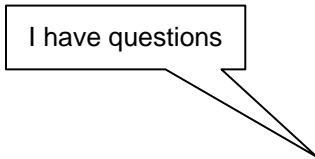
Exercise 1: Checking a Diode

1. Obtain the diode from the electrical simulator kit (part number 1350).
2. Set up your DMM for diode check:
 - Mode selector to the diode symbol $\rightarrow|$
 - Auto-range on
 - Black test lead plugged into COM input jack
 - Red test lead plugged into Volts/Ohms/Diode input jack
3. Forward bias the diode:
 - Connect red test lead to the diode's anode (end away from the stripe)
 - Connect the black test lead to the cathode (end closest to the stripe)
4. Note the DMM display. Write the value here: _____ Volts
5. Reverse bias the diode:
 - Connect black test lead to the diode's anode
 - Connect the red test lead to the cathode
6. Note the DMM display. Write the value here: _____ Volts

Diode Check

Name: _____ Date: _____

Review this sheet as you are doing the Diode Check worksheet. Check each category after viewing the instructor's presentation and completing the worksheet. Ask the instructor if you have questions regarding the topics provided below. Additional space is provided under topic for you to list any other concerns that you would like you instructor to address. The comments section is provided for your personal comments, information, questions, etc.



Topic	Comment		
Checking a Diode			