

## HIGH-VOLTAGE SPIKE PROTECTION

**CLAMPING DIODES** Diodes can be used to clamp voltage spikes across the input or output of a device. If a diode is placed in series with the signal, it will prevent any voltage spikes from passing through the device. The diode is placed in series with the signal, and the voltage spike is clamped to the diode's forward voltage. This prevents the voltage spike from passing through the device. Clamping diodes can also be used to protect a device from a reverse voltage spike. In this case, the diode is placed in parallel with the signal, and the reverse voltage spike is clamped to the diode's reverse voltage. See Figure 49-4.

512 CHAPTER 49

## LIGHT-EMITTING DIODES

**OPERATION** An LED emits some energy during normal operation. Most diodes radiate heat because of the junction barrier voltage drop (typically 0.7 volt for silicon diodes). Light-emitting diodes (LEDs) radiate light when current flows through the diode in the forward-bias direction. See Figure 49-5.

The forward-bias voltage required for an LED ranges between 1.8 and 2.2 volts.

An LED will only light if the voltage at the anode (positive terminal) is at least 1.8 to 2.2 volts higher than the voltage at the cathode (negative terminal).

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