## **Littelfuse Protection Relays**

Technical Note - Ground Check



## SE-105 & SE-107 TESTS

The following tests are for a resistance-grounded system utilizing an SE-TA6 termination device. Set the GF switch to the correct trip level and the MODE switch to UV.

#### 5.6-V Zener-Diode Test

The zener diode is tested as a stand-alone unit. Most multimeters have a quick diode-test function. In the forward-biased direction, the diode-test should read  $\sim$ 0.6 V. In the reverse-biased direction, the diode-test should read OPEN.

#### **Ground-Check Trip Test**

Connect the SE-105/SE-107 and termination device as shownin Figure 1 The ground-check LED should be on. Open-circuit the termination device, the ground-check LED should be off. Connect the termination device; the ground-check LED should be off.

### **Ground-Fault Trip Test**

The GF trip level on the SE-105/SE-107 refers to the current through the primary of the CT200 or CT200L. The SE-105/SE-107 ground-fault trip level is calibrated for use with the CT200 or CT200L and compensates for CT non-linearity.



# SE-105 & SE-107 TESTS

