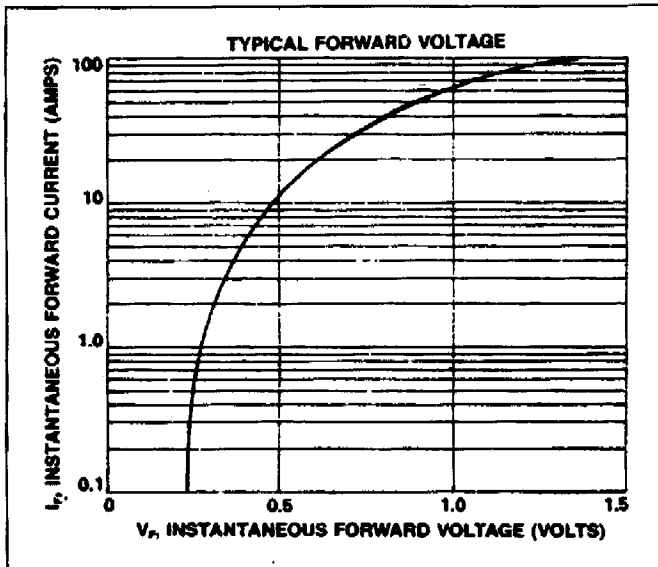


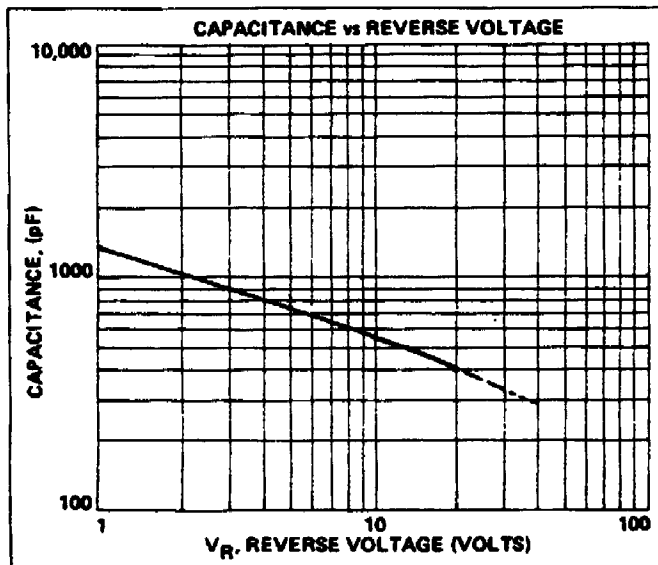
— VSK520
 - - - VSK530
 - · - VSK540
 PULSE WIDTH = 300 μ sec
 T_L = LEAD TEMP. MEASURED
 .03" FROM
 RECTIFIER BODY WITH
 40 GAUGE THERMOCOUPLE

FIGURE 1



PULSE WIDTH = 300 μ sec
 $T_A = 25^\circ\text{C}$

FIGURE 2



— VSK520
 - - - VSK530
 - · - VSK540
 $T_A = 25^\circ\text{C}$
 TEST FREQ = 100 kHz

The current flow in a Schottky barrier rectifier is due to majority carrier conduction and is not affected by reverse recovery transients due to stored charge and minority carrier injection as in conventional PN diodes.

The Schottky barrier rectifier may be considered for purposes of circuit analysis, as an ideal diode in parallel with a variable capacitance equal in value to the junction capacitance. See Figure 3.

FIGURE 3