A METHOD AND DEVICE FOR REDUCING CAPACITIVE AND MAGNETIC EFFECTS FROM A SUBSTRATE BY USING A SCHOTTKY DIODE UNDER PASSIVE COMPONENTS

ABSTRACT

A method of fabricating high quality passive components having reduced capacitive and magnetic effects by using a Schottky diode underlying the passive components in the manufacture of integrated circuits is described. A Schottky diode is formed completely covering an active area where passive devices are to be formed. The Schottky diode is covered with a dielectric layer. Passive components are formed overlying the dielectric layer wherein the Schottky diode reduces substrate noise resulting in high quality of the passive components.

(Figure 7)