

ABSTRACT

BIAS SENSING IN DRAM SENSE AMPLIFIERS

Voltage coupling/decoupling devices are provided within DRAM devices for improving the bias sensing of sense amplifiers and thus the refresh performance. The voltage coupling/decoupling device s couples or decouples bias voltage from corresponding digit lines coupled to the sense amplifiers. By coupling and decoupling voltage from the digit lines, the time interval between refresh operations can be increased.

FIGURE 1