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(54) Title: SENSE AMPLIFIER, MEMORY AND CONTROL METHOD

(54) 发明名称: 灵敏放大器、存储器以及控制方法

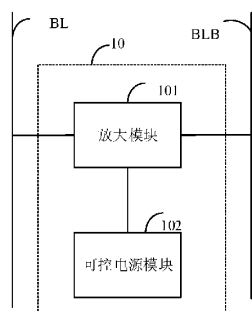


图 2

101 Amplification module
102 Controllable power source module

(57) Abstract: Provided in the present application are a sense amplifier, a memory and a control method. The sense amplifier comprises: an amplification module, which is used for amplifying, when the sense amplifier is in an amplification phase, a voltage difference between a bit line and a reference bit line; and a controllable power source module, which is connected to the amplification module and is used for determining a driving parameter according to a rated compensation voltage range between the bit line and the reference bit line, and providing a power source to the amplification module according to the driving parameter, so as to control the amplification module to pull, in an offset cancellation phase, a compensation voltage between the bit line and the reference bit line to a rated compensation voltage, wherein the rated compensation voltage is located within the rated compensation voltage range. By means of the sense amplifier, a compensation voltage between a bit line and a reference bit line is controlled in an offset cancellation phase to be located within a rated compensation voltage range, such that an external reading circuit can accurately read data.

(57) 摘要: 本申请提供一种灵敏放大器、存储器以及控制方法, 灵敏放大器包括: 放大模块, 用于在灵敏放大器处于放大阶段时, 放大位线和基准位线之间的电压差, 可控电源模块, 与放大模块连接, 用于根据位线和基准位线之间额定补偿电压范围确定驱动参数, 并根据驱动参数向放大模块提供电源, 以控制放大模块在偏移消除阶段拉动位线和基准位线之间的补偿电压为额定补偿电压, 其中, 额定补偿电压位于额定补偿电压范围内。灵敏放大器在偏移消除阶段控制位线和基准位线之间的补偿电压位于额定补偿电压范围内, 以使外部读取电路可以准确读取数据。

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