

METHOD AND SYSTEM FOR REFRESHING DYNAMIC RANDOM ACCESS MEMORY DRAM AND DEVICE

ABSTRACT

5 Embodiments of the present invention provide a method and system for refreshing a dynamic
random access memory DRAM, and a device. An address of a refresh unit in a DRAM and refresh
information of the refresh unit are acquired, where the refresh unit is storage space on which one
time of refresh is performed in the DRAM, and the refresh information of the refresh unit includes a
refresh cycle of the refresh unit; and the address of the refresh unit and the refresh information of
10 the refresh unit are encapsulated as a DRAM access request, and the address of the refresh unit and
the refresh information of the refresh unit are written into refresh data space by using the DRAM
access request, where the refresh data space is storage space that is preset in the DRAM and that is
used for storing an address of at least one refresh unit and refresh information of the at least one
refresh unit. According to the foregoing solutions, pertinent refreshing can be performed according
15 to refresh information of a refresh unit, so as to resolve a problem of relatively large performance
overheads and energy-consumption overheads caused by refresh performed according to a same
cycle.

FIGURE 2A