

**DYNAMIC SELF-REFRESH DISPLAY MEMORY****ABSTRACT**

A dynamic memory cell (10) for storing data in a display having at least one  
5 MEMS device for each pixel has at least two dynamic memory elements (130,  
135) per pixel, including first and second dynamic memory elements (A, B),  
each including at least one capacitor, both of the first and second memory  
elements being electrically coupled to the MEMS device (20) of a single pixel. A  
sense amplifier (140, 150, 160) is configured to amplify the data signal and to  
10 latch data in response to a differential data signal (60, 70) and a clock signal  
(40, 50), self-refreshing the data and loading data to the MEMS device as  
required.

( Fig. 1 )