

1K Bit

X22C12

256 x 4

Nonvolatile Static RAM

FEATURES

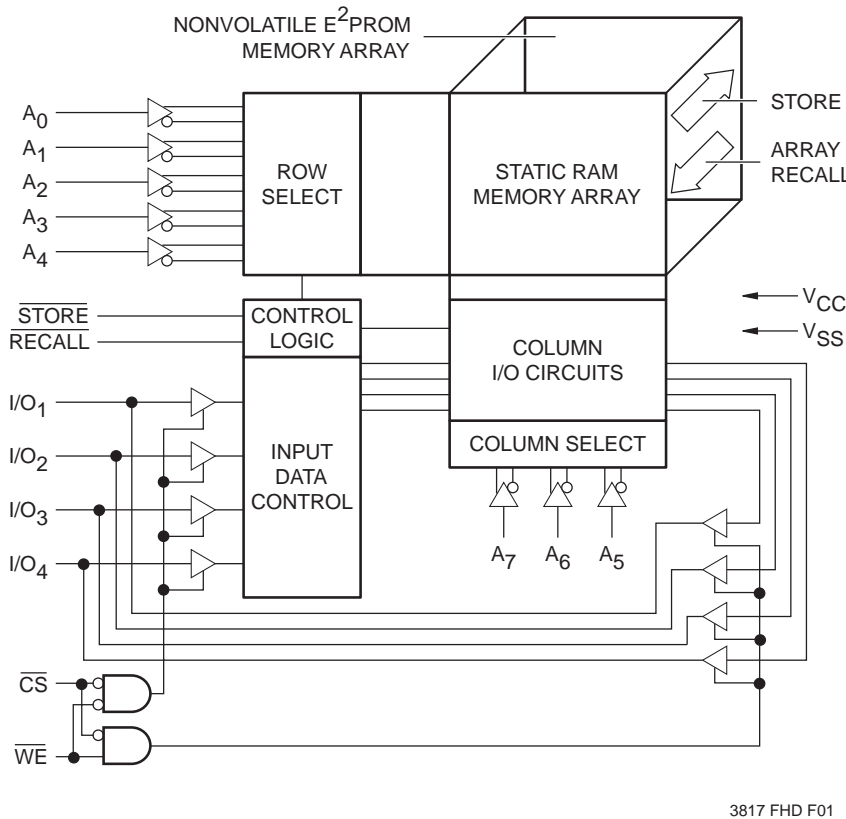
- High Performance CMOS
 - 150ns RAM Access Time
- High Reliability
 - Store Cycles: 1,000,000
 - Data Retention: 100 Years
- Low Power Consumption
 - Active: 40mA Max.
 - Standby: 100µA Max.
- Infinite Array Recall, RAM Read and Write Cycles
- Nonvolatile Store Inhibit: $V_{CC} = 3.5V$ Typical
- Fully TTL and CMOS Compatible
- JEDEC Standard 18-Pin 300-mil DIP
- 100% Compatible with X2212
 - With Timing Enhancements

DESCRIPTION

The X22C12 is a 256 x 4 CMOS NOVRAM featuring a high-speed static RAM overlaid bit-for-bit with a non-volatile E²PROM. The NOVRAM design allows data to be easily transferred from RAM to E²PROM (STORE) and from E²PROM to RAM (RECALL). The STORE operation is completed within 5ms or less and the RECALL is completed within 1µs.

Xicor NOVRAMs are designed for unlimited write operations to the RAM, either RECALLs from E²PROM or writes from the host. The X22C12 will reliably endure 1,000,000 STORE cycles. Inherent data retention is greater than 100 years.

FUNCTIONAL DIAGRAM



3817 FHD F01

PIN CONFIGURATION

