

## MSM5188RS/AS

8,192-WORD x 8-BIT C-MOS STATIC RAM

### GENERAL DESCRIPTION

MSM5188 is a 8192 word 8-bit CMOS static RAM featuring 5V power supply operation and direct TTL coupling for inputs and outputs. And since the circuitry is completely static, external clock and refreshing operations are unnecessary, making this device very easy to employ. MSM5188 is also a CMOS silicon gate device which requires very low power during standby (standby current of 2mA) when there is no chip selection.

A byte system is adopted, and since there is pin compatibility with ultra-violet erasable type programmable ROMs, this device is ideal for use as a peripheral memory for microcomputers and data terminal units etc. In addition,  $\overline{CE}$ , CE and  $\overline{OE}$  signals enable OR ties with the output terminals of other chips, thereby facilitating simple memory expansion and bus line control etc.

### FEATURES

- Single 5V Supply
- 0°C ~ 70°C
- Low Power Dissipation
  - Standby; 100μW TYP 10mW MAX
  - Operation; 100mW TYP 150mW MAX
- High Speed (Equal Access and Cycle Time)
  - 100 - 120 ns MAX
- Direct TTL Compatible. (Input and Output)
- 3-State Output
- Pin Compatible with
  - 64K EPROM (MSM2764)
  - 64K NMOS SRAM (MSM2188)
- 28-pin DIP PKG

