FUJITSU
MICROELECTRONICS

MB8417A-12
MB8417A-15

CMOS 16,384-BIT STATIC RANDOM ACCESS MEMORY

ADVANCE INFORMATION

DESCRIPTION

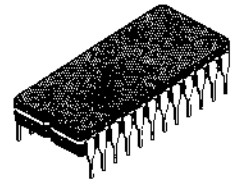
The Fujitsu MB8417A is a 2048 word by 8-bit static random access memory fabricated with high density, high reliability Complementary MOS silicon-gate technology.

The memory utilizes asynchronous circuitry and may be maintained in any state for an indefinite period of time. All input and output pins are TTL-compatible, and a single 5 volt power supply is used. It is possible to retain data at low power supply voltage.

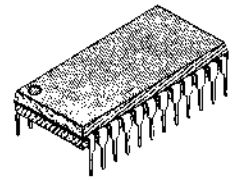
The MB8417A can be optimized for high performance applications such as microcomputer systems where fast access time and ease of use are required. Chip Selects ($\overline{CS}$) permits fast access time. The MB8417A is packaged in an industry standard 24-pin dual in-line package.

FEATURES

- **Organized as 2048 words by 8-bits**
- **Address Access Time:**
  MB8417A-12 120ns Max.
  MB8417A-15 150ns Max.
- **Low Power Dissipation:**
  I_{CC} (Active) = 60mA Max.
  I_{SB} (Standby) = 4mA Max.
  I_{DR} (Data Retention) = 2mA Max.
- **Completely Static Operation, no clocks required**
- **Single +5 V Power Supply, ±10% tolerance**
- **TTL Compatible Inputs/Outputs**
- **Data Retention 2.0V Min.**
- **Equal Access and Cycle Times**
- **Output Timing reference levels: 0.8V to 2.2V**
- **Pin compatible with TC5516, μPD447**

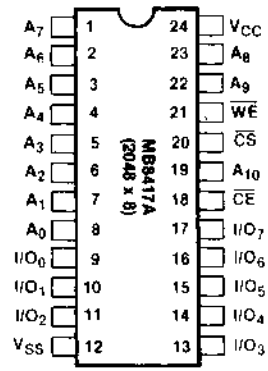


CERDIP PACKAGE
DIP-24C-C03



PLASTIC PACKAGE
DIP-24C-M01

PIN ASSIGNMENT



This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields. However, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit.

TRUTH TABLE

DEVICE NUMBER	MB8417A				
PIN NUMBER	18	20	21	24	9-11, 13-17
PIN NAME / MODE	$\overline{CE}$	$\overline{CS}$	$\overline{WE}$	SUPPLY CURRENT	I/O
WRITE	L	L	L	I_{CC}	D_{IN}
READ	L	L	H	I_{CC}	D_{OUT}
CHIP DESELECT	L	H	X	I_{CC}	HIGH Z
STANDBY 2	H	X	X	I_{SB}	HIGH Z