

FUJITSU**CMOS 2M-BIT
MASK-PROGRAMMABLE
READ ONLY MEMORY****MB832000**April 1988
Edition 1.0**2M-BIT(262,144 x 8) CMOS READ ONLY MEMORY**

The Fujitsu MB832000 is a CMOS Si-gate mask-programmable static read only memory organized as 262,144 words by 8 bits.

The MB832000 has TTL-compatible I/O and 3-state output level with fully-static operation (i.e. no need of clock signal) and a single +5V power supply is required. Also, the MB832000 is designed for applications such as character generator or program storage which require large memory capacity and high-speed/low-power operation.

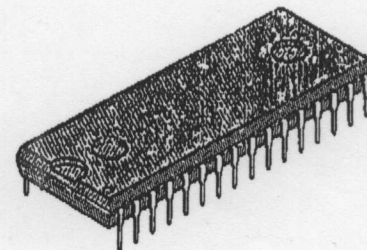
- Organization: 262,144 words x 8 bits
- Access time: 200 ns
- Completely static operation: No clock required
- TTL compatible Input/Output
- Three state output
- Single +5V power supply
- Power dissipation:
 - 220 mW max. (Active)
 - 18.5mW max. (Standby, TTL Input level)
 - 275 μ W max. (Standby, CMOS Input level)
- 32-pin DIP (Pin compatible with MBM27C1001)

ABSOLUTE MAXIMUM RATINGS (see NOTE)

(Referenced to GND)

Rating	Symbol	Value	Unit
Supply Voltage	V_{CC}	-0.3 to +7.0	V
Input Voltage	V_{IN}	-0.5 to $V_{CC}+0.5$	V
Output Voltage	V_{OUT}	-0.5 to $V_{CC}+0.5$	V
Temperature Under Bias	T_{BIAS}	10 to 185	$^{\circ}$ C
Storage Temperature Range	T_{STG}	-45 to 125	$^{\circ}$ C

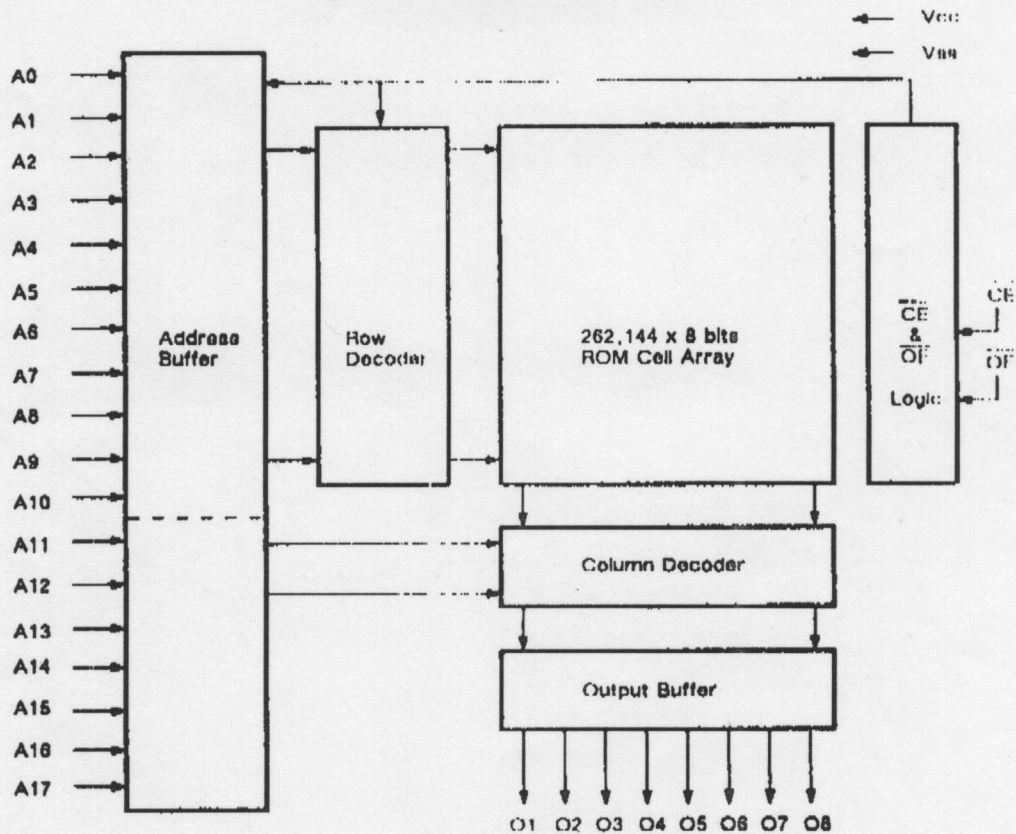
NOTE: Permanent device damage may occur if the above Absolute Maximum Ratings are exceeded. Functional operation should be restricted to the conditions as detailed in the operational sections of this data sheet. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

**PLASTIC PACKAGE
DIP-32P-M01****PIN ASSIGNMENT
MB832000**

NC	1	32	V_{CC}
A16	2	31	NC
A15	3	30	A17
A12	4	29	A14
A7	5	28	A13
A6	6	27	A8
A5	7	26	A9
A4	8	25	A11
A3	9	24	OE
A2	10	23	A10
A1	11	22	CE
A0	12	21	OB
O1	13	20	O7
O2	14	19	O6
O3	15	18	O5
V_{SS}	16	17	O4

This device contains circuitry to protect the inputs against damage due to high static voltages or electrostatic 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.

Fig. 1-MB832000 BLOCK DIAGRAM



TRUTH TABLE

\overline{CE}	\overline{OE}	Mode	Output	Power Mode
H	X	Not Selected	High-Z	Standby
L	H	Not Selected	High-Z	Active
L	L	Selected	Data Out	Active

CAPACITANCE (TA=25°C, f=1MHz)

Parameter	Symbol	Min	Typ	Max	Unit
Output Capacitance (VOUT=0V)	COUT			15	pF
Input Capacitance (VIN=0V)	CIN			10	pF