

# MOS Memories

## ■ Dynamic RAMs

### ● 16M DRAMs (3.3V version)

Organization (words Xbits)	Type No.	Access time max (ns)	Cycle time min (ns)	Refresh (cycles/ms)	Maximum Supply Current		Package	No.	Remarks
					Active (mA)	CBR self refresh ( $\mu$ A)			
4M X 4	MN41V17400BTT	50/60/70	90/110/130	2048/32	110/100/90	—	TSOP026-P-0300B	M24	Fast page mode
	MN41V17405BTT	50/60/70	90/110/130	2048/32	110/100/90	—	TSOP026-P-0300B	M24	EDO mode
1M X 16	MN41V16160BTT	60/70	110/130	4096/64	90/80	—	TSOP050-P-0400A	M28	Fast page mode 2CAS · 1WE
	MN41V18160BTT	60/70	110/130	1024/16	150/140	—	TSOP050-P-0400A	M28	Fast page mode 2CAS · 1WE
	MN41V16165BSJ	60/70	110/130	4096/64	90/80	—	SOJ042-P-0400	M17	EDO mode 2CAS · 1WE
	MN41V16165BTT	60/70	110/130	4096/64	90/80	—	TSOP050-P-0400A	M28	EDO mode 2CAS · 1WE

### ● 16M DRAMs (3.3V version, CBR self refresh operation)

Organization (words Xbits)	Type No.	Access time max (ns)	Cycle time min (ns)	Refresh (cycles/ms)	Maximum Supply Current		Package	No.	Remarks
					Active (mA)	CBR self refresh ( $\mu$ A)			
4M X 4	MN42V17400BTT	50/60/70	90/110/130	2048/128	110/100/90	150	TSOP026-P-0300B	M24	Fast page mode
	MN42V17405BTT	50/60/70	90/110/130	2048/128	110/100/90	150	TSOP026-P-0300B	M24	EDO mode
1M X 16	MN42V16160BTT	60/70	110/130	4096/128	90/80	150	TSOP050-P-0400A	M28	Fast page mode 2CAS · 1WE
	MN42V18160BTT	60/70	110/130	1024/128	150/140	150	TSOP050-P-0400A	M28	Fast page mode 2CAS · 1WE
	MN42V18165BTT	60/70	110/130	1024/128	150/140	150	TSOP050-P-0400A	M28	EDO mode 2CAS · 1WE

### ● 16M Synchronous DRAMs (3.3V version, CBR self refresh operation)

Organization (words Xbits X banks)	Type No.	Cycle time min (ns)	Refresh (cycles/ms)	Maximum Supply Current		Package	No.	Remarks
				Active (mA)	CBR self refresh ( $\mu$ A)			
1M X 8 X 2	▲MN4SV17080T	10/12/15	2048/32	110/100/90	1000	TSOP044-P-0400	M27	Full Function
512K X 16 X 2	MN4SV17160T	10/12/15	2048/32	120/110/100	1000	TSOP050-P-0400	M29	Full Function
	MN4SV17160T-A	10/12/13	2048/32	120/110/105	2000	TSOP050-P-0400	M29	Limited Function

▲Under development

(Package Symbol) SOJ = Small Outline J-Bend Package, TSOP = Thin Small Outline Package