

MOS  
LSI

# TMS 4033, 4034, 4035, 4039, 4042, 4043 JL, NL

## TMS 4036

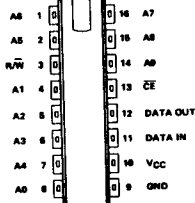
### 1024-BIT AND 512-BIT STATIC RAMs

NOVEMBER 1977

- No clocks — No refresh
- Input/Output fully TTL compatible
- Three-state output for OR-Tie capability
- Single 5-volt supply
- Simple, fully decoded addressing
- Reliability, same process as TI's industry standard 4K RAMs
- Economy, high volume production techniques and choice of plastic or ceramic packaging
- Super low standby power (typical 2-3 mW)
- Wide range of speeds for design optimization
- Easy to use 8-bit byte organization (64 x 8) plus industry standard 256 x 4 and 1024 x 1

#### TMS 4033, TMS 4034, TMS 4035

16 PIN CERAMIC AND PLASTIC DUAL IN-LINE PACKAGES (TOP VIEW)

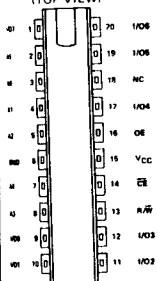


- 1024 x 1 Organization
- 225 mW Typical power dissipation

Part Number	Max. Access/ Min. Cycle
TMS 4033/2102 1 JL, NL	450 ns
TMS 4034/2102 2 JL, NL	850 ns
TMS 4035/2102 1 JL, NL	1000 ns

#### TMS 4036

20 PIN PLASTIC DUAL IN-LINE PACKAGES (TOP VIEW)

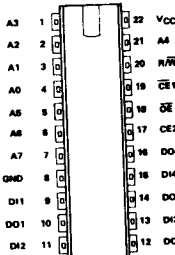


- 64 x 8 Organization
- 250 mW Typical power dissipation
- On-chip multiplexed I/O for microprocessor-oriented systems

Part Number	Max. Access/ Min. Cycle
TMS 4036 NL	1000 ns
TMS 4036 1 NL	850 ns
TMS 4036 2 NL	450 ns

#### TMS 4039

22 PIN CERAMIC AND PLASTIC DUAL IN-LINE PACKAGES (TOP VIEW)

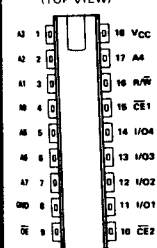


- 256 x 4 Organization
- 175 mW Typical power dissipation
- Separate input and output
- 2 chip enables for maximum control

Part Number	Max. Access/ Min. Cycle
TMS 4039/2101 1 JL, NL	1000 ns
TMS 4039 1/2101 2 JL, NL	850 ns
TMS 4039 2/2101 1 JL, NL	450 ns

#### TMS 4042

16 PIN CERAMIC AND PLASTIC DUAL IN-LINE PACKAGES (TOP VIEW)

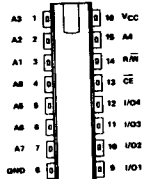


- 256 x 4 Organization
- 175 mW Typical power dissipation
- Common I/O for Bus-oriented systems

Part Number	Max. Access/ Min. Cycle
TMS 4042/2111 1 JL, NL	1000 ns
TMS 4042 1/2111 2 JL, NL	850 ns
TMS 4042 2/2111 1 JL, NL	450 ns

#### TMS 4043

16 PIN CERAMIC AND PLASTIC DUAL IN-LINE PACKAGES (TOP VIEW)



- 256 x 4 Organization
- 175 mW Typical power dissipation
- Provides common I/O and highest packing density

Part Number	Max. Access/ Min. Cycle
TMS 4043/2112 1 JL, NL	1000 ns
TMS 4043 1/2112 2 JL, NL	850 ns
TMS 4043 2 JL, NL	450 ns

PRELIMINARY DATA SHEET:  
Supplementary data will be  
published at a later date.

TEXAS INSTRUMENTS  
INCORPORATED  
POST OFFICE BOX 5012 • DALLAS, TEXAS 75222