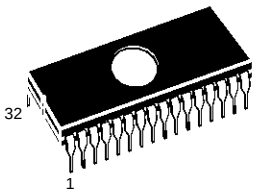
SGS-THOMSON MICROELECTRONICS

M27V401

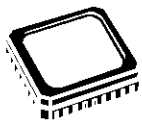
LOW VOLTAGE 4 Megabit (512K x 8) UV EPROM and OTP EPROM

DATA BRIEFING

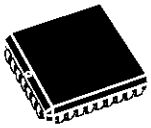
- LOW VOLTAGE READ OPERATION: 3V to 5.5V
- FAST ACCESS TIME: 120ns
- LOW POWER "CMOS" CONSUMPTION:
  - Active Current 15mA
  - Standby Current 20µA
- PROGRAMMING VOLTAGE: 12.75V
- PROGRAMMING TIMES of AROUND 48sec. (PRESTO II ALGORITHM)
- M27V401 is PROGRAMMABLE as M27C4001 with IDENTICAL SIGNATURE



FDIP32W (F)



LCCC32W (L)



PLCC32 (K)

TSOP32 (N)
8 x 20mm

DESCRIPTION

The M27V401 is a low voltage, low power 4 Megabit UV erasable and electrically programmable EPROM, ideally suited for handheld and portable microprocessor systems requiring large programs. It is organized as 524,288 by 8 bits.

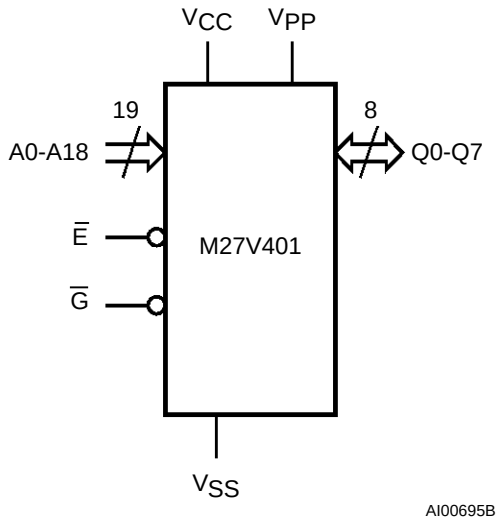
The M27V401 operates in the read mode with a supply voltage as low as 3V. The decrease in operating power allows either a reduction of the size of the battery or an increase in the time between battery recharges.

The M27V401 can also be operated as a standard 4 Megabit EPROM (similar to M27C4001) with a 5V power supply.

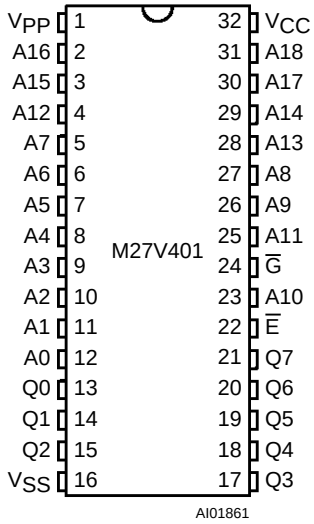
Signal Names

A0 - A18	Address Inputs
Q0 - Q7	Data Outputs
$\overline{E}$	Chip Enable
$\overline{G}$	Output Enable
V_{PP}	Program Supply
V_{CC}	Supply Voltage
V_{SS}	Ground

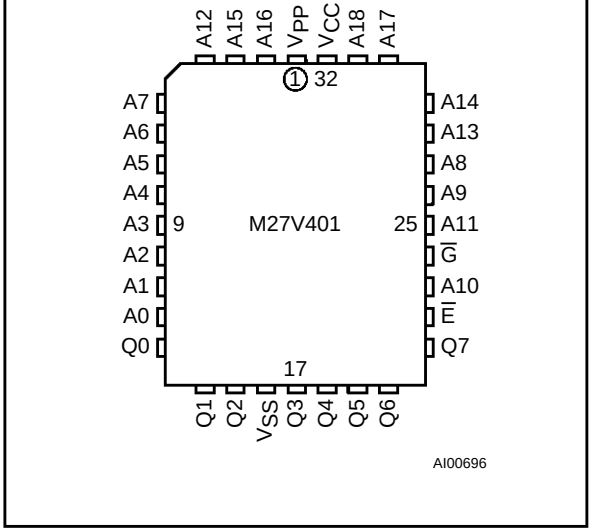
Logic Diagram



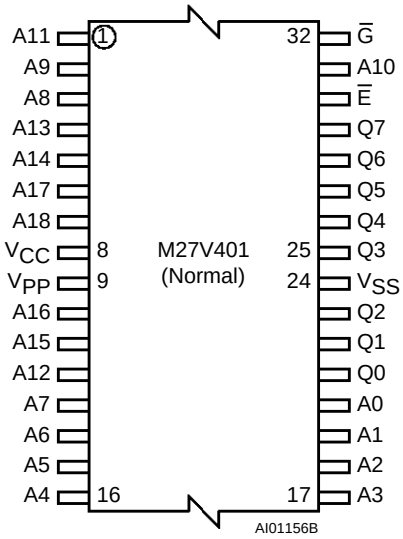
DIP Pin Connections



LCC Pin Connections



TSOP Pin Connections



Ordering Information Scheme

For a list of available options refer to the current Memory Shortform catalogue.

For further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.

Example: M27V401 -120 K 6 TR

Speed

-120 120ns
-150 150ns
-180 180ns
-200 200ns

Package

F FDIP32
L LCCC32W
K PLCC32
N TSOP32
8 x 20mm

Temp. Range

1 0 to 70 °C
6 –40 to 85 °C

Option

TR Tape & Reel Packing