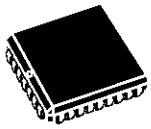
SGS-THOMSON MICROELECTRONICS

M27V405

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

DATA BRIEFING

- PIN COMPATIBLE with the 4 MEGABIT, SINGLE VOLTAGE FLASH MEMORY
- 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:
  - Typical 48sec. (PRESTO II Algorithm)
  - Typical 27sec. (On-Board Programming)
- M27V405 is PROGRAMMABLE as M27C405 with IDENTICAL SIGNATURE



PLCC32 (K)

TSOP32 (N)
8 x 20mm

DESCRIPTION

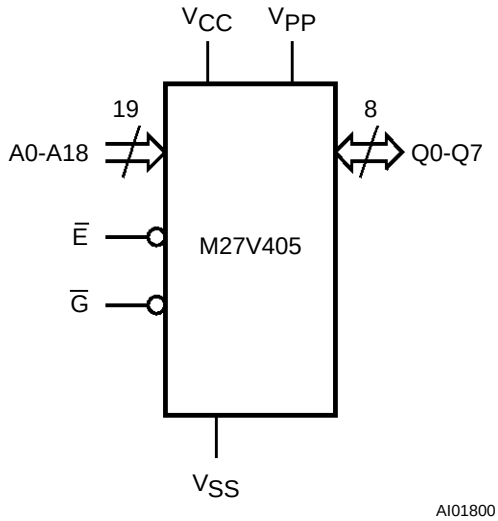
The M27V405 is a low voltage, low power 4 Megabit One Time Programmable EPROM, organised as 524,288 by 8 bits. It is ideally suited for microprocessor systems requiring large programs, in the application where the contents is stable and needs to be programmed only one time.

The M27V405 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.

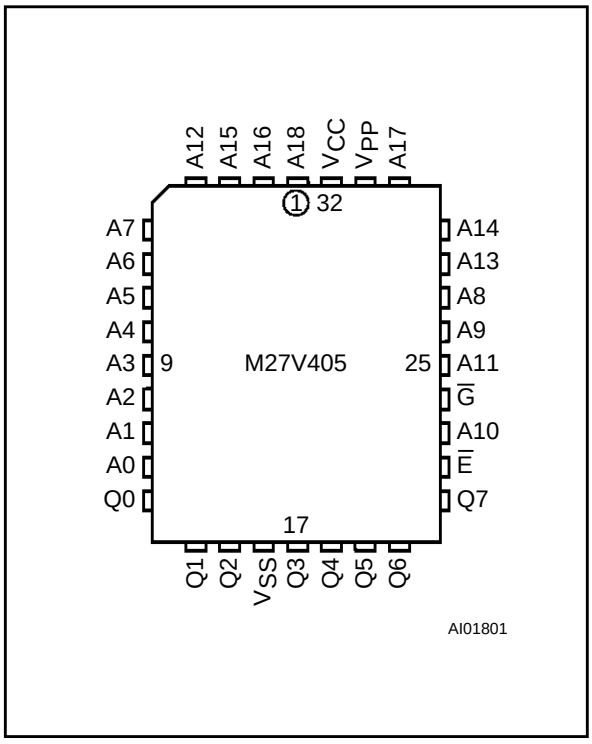
The M27V405 is pin compatible with the industry standard 4 Megabit, single voltage FLASH Memory. It can be considered as a FLASH Low Cost solution for production quantities.

The M27V405 can also be operated as a standard 4 Megabit OTP EPROM (similar to M27C405) with a 5V power supply. The M27V405 is offered in Plastic Leaded Chip Carrier and Plastic Thin Small Outline packages.

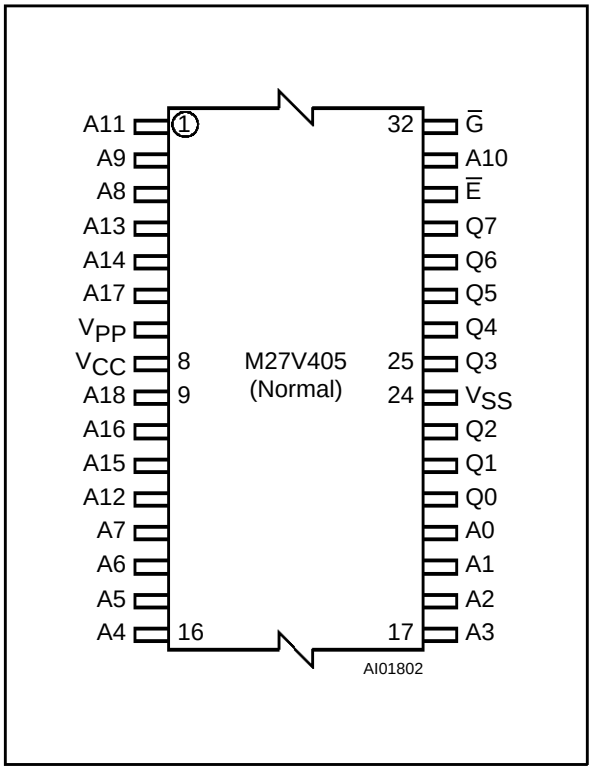
Logic Diagram



LCC Pin Connections



TSOP Pin Connections



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

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: M27V405 -150 K 1 TR

Speed

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

Package

K PLCC32
N TSOP32
8 x 20mm

Temp. Range

1 0 to 70 °C
4 –20 to 70 °C
5 –20 to 85 °C
6 –40 to 85 °C

Option

TR Tape & Reel Packing