# SGS-THOMSON MICROELECTRONICS

M27C405

4 Mbit (512Kb x 8) OTP EPROM

DATA BRIEFING

- 5V $\pm$ 10% SUPPLY VOLTAGE in READ OPERATION
- PIN COMPATIBLE with the 4 Mbit, SINGLE VOLTAGE FLASH MEMORY
- FAST ACCESS TIME: 70ns
- LOW POWER CONSUMPTION:
  - Active Current 30mA at 5MHz
  - Standby Current 100μA
- PROGRAMMING VOLTAGE: 12.75V $\pm$ 0.25V
- PROGRAMMING TIMES
  - Typical 48sec. (PRESTO II Algorithm)
  - Typical 27sec. (On-Board Programming)
- ELECTRONIC SIGNATURE
  - Manufacturer Code: 20h
  - Device Code: B4

PDIP32 (B)   PLCC32 (K)

TSOP32 (N)
8 x 20mm
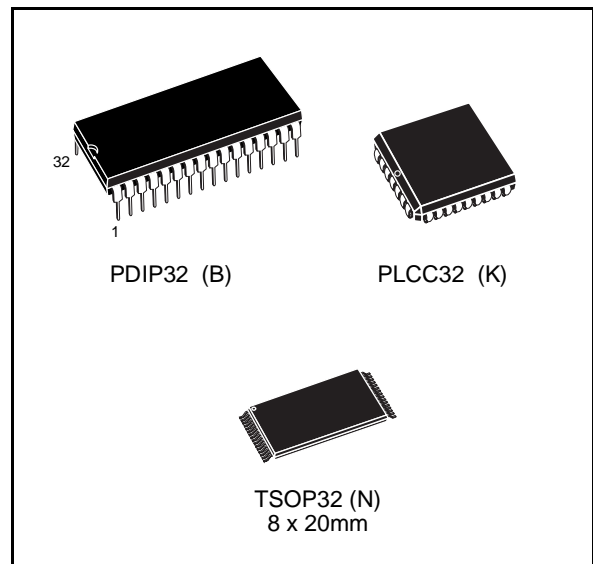
DESCRIPTION

The M27C405 is a 4 Mbit EPROM offered in the OTP (one time programmable) range. 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 and is organised as 524,288 by 8 bits.

The M27C405 is pin compatible with the industry standard 4 Mbit, single voltage Flash memory. It can be considered as a Flash Low Cost solution for production quantities.

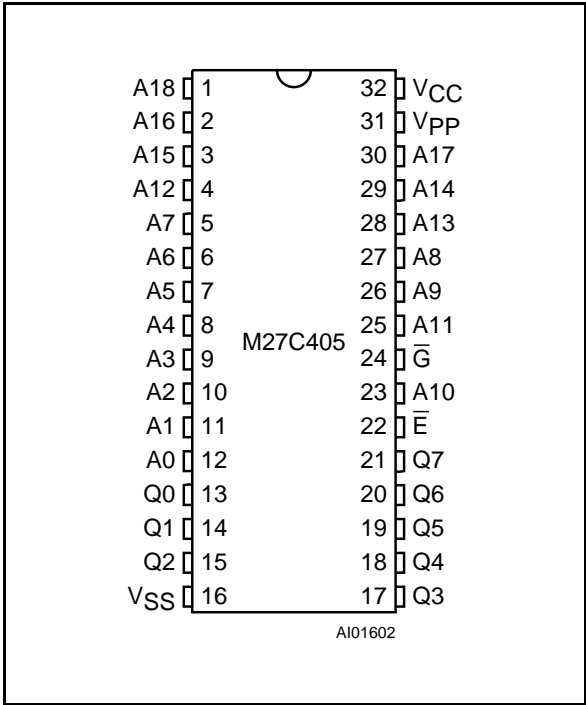The M27C405 is offered in PDIP32, PLCC32 and TSOP32 (8 x 20 mm) packages.

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

AI01601
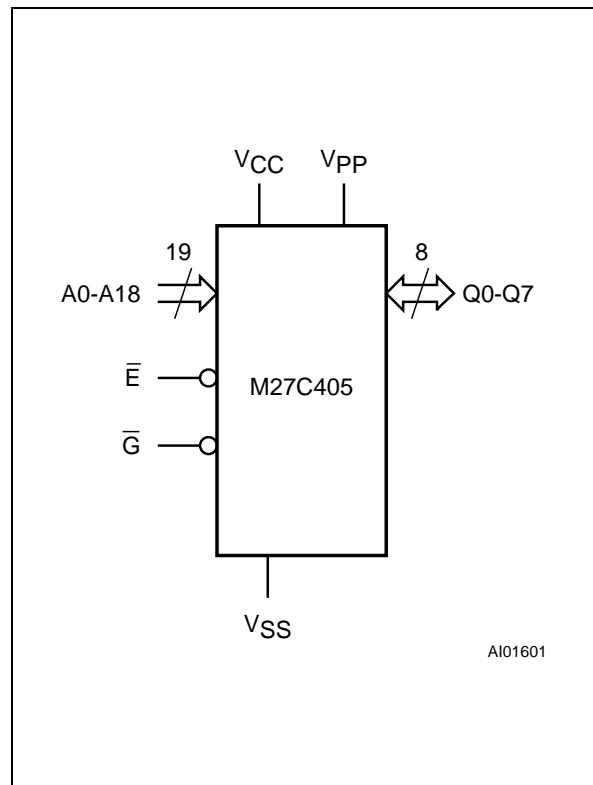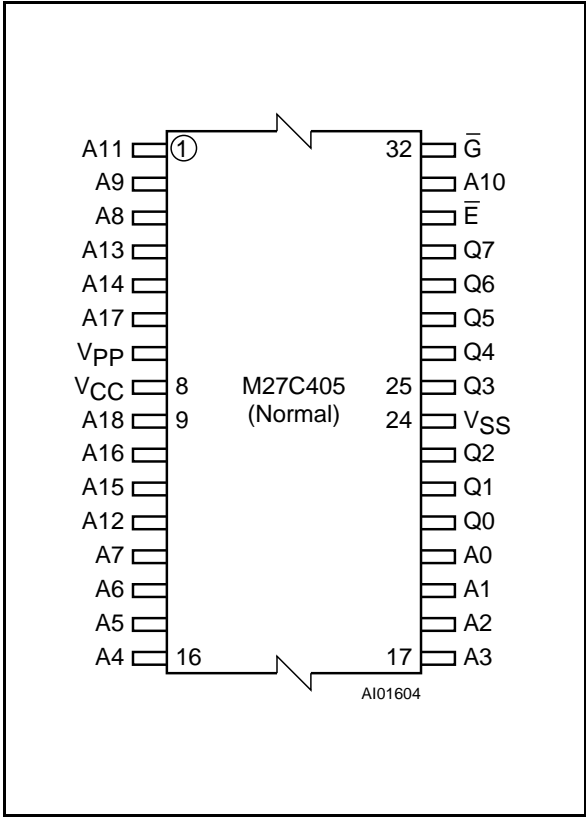
DIP Pin Connections

AI01602

LCC Pin Connections

AI01603
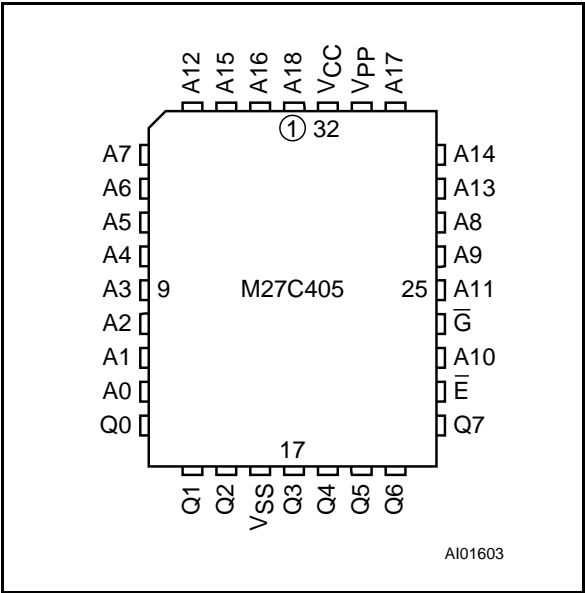
Ordering Information Scheme

For a list of available options or for further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.

Example: M27C405 -80 K 1 TR

Speed

-70 70ns
-80 80ns
-90 90ns
-100 100ns
-120 120ns
-150 150ns

Package

B   PDIP32
K   PLCC32
N   TSOP32
    8 x 20mm

Temp. Range

1   0 to 70 °C
6   −40 to 85 °C

Option

TR Tape & Reel
    Packing

TSOP Pin Connections

AI01604