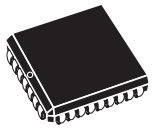
M27V405

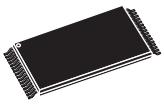
4 Mbit (512Kb x 8) Low Voltage OTP EPROM

DATA BRIEFING

- LOW VOLTAGE READ OPERATION: 3V to 3.6V
- FAST ACCESS TIME: 120ns
- LOW POWER CONSUMPTION:
  - Active Current 15mA
  - Standby Current 20µA
- PROGRAMMING VOLTAGE: 12.75V ± 0.25V
- PROGRAMMING TIMES:
  - Typical 48sec. (PRESTO II Algorithm)
  - Typical 27sec. (On-Board Programming)
- PIN COMPATIBLE with the 4 Mbit, Single Voltage Flash Memory
- ELECTRONIC SIGNATURE
  - Manufacturer Code: 20h
  - Device Code: B4



PLCC32 (K)



TSOP32 (N)
8 x 20mm

DESCRIPTION

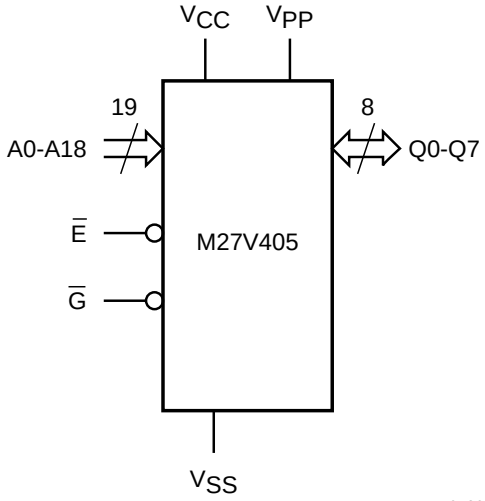
The M27V405 is a low voltage 4 Mbit EPROM offered in the OTP range (one time programmable). It is ideally suited for microprocessor systems requiring large data or program storage and is organised as 524,288 by 8 bits.

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 Mbit single voltage Flash memory. It can be considered as a Flash Low Cost solution for production quantities.

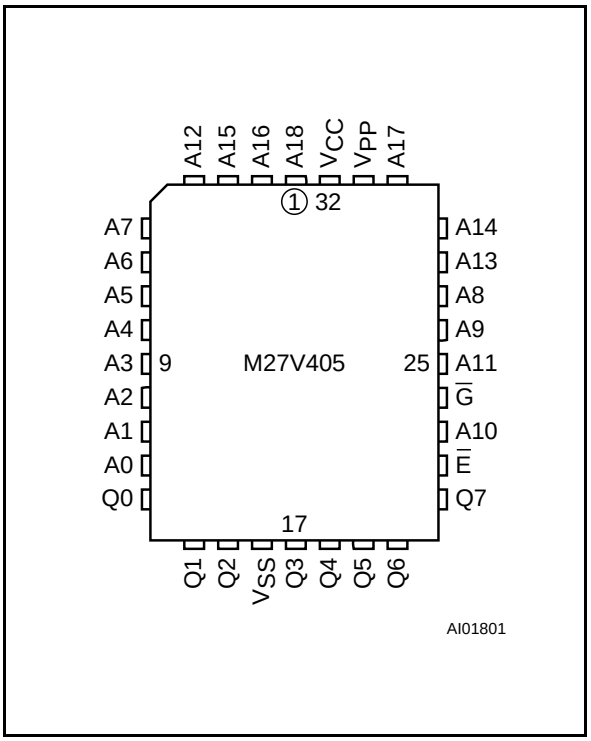
The M27V405 is offered in PLCC32 and TSOP32 (8 x 20 mm) packages.

Logic Diagram

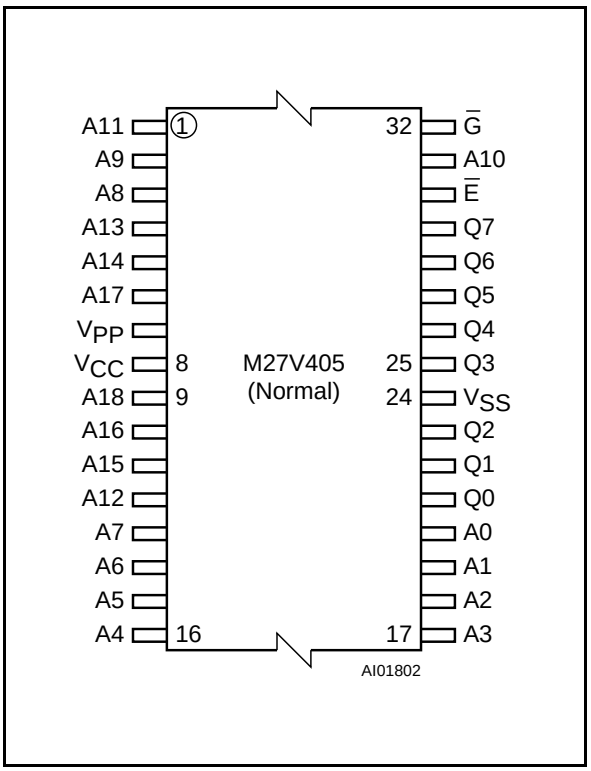


Complete data available on *DATA-on-DISC CD-ROM* or at *www.st.com*

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 or for further information on any aspect of this device, please contact the STMicroelectronics Sales Office nearest to you.

Example: M27V405 -120 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