

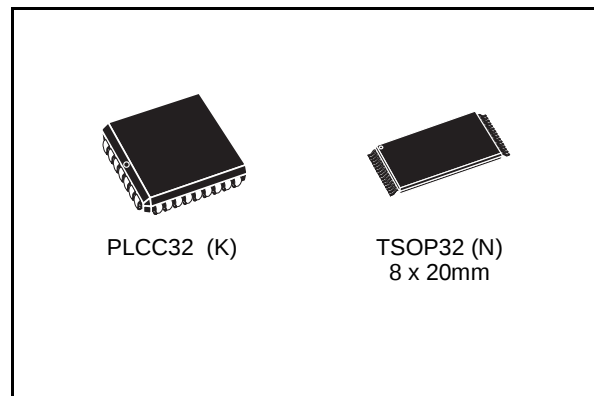


M27W401

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

DATA BRIEFING

- LOW VOLTAGE READ OPERATION:
2.7V to 3.6V
- FAST READ ACCESS TIME:
 - 70ns at $V_{CC} = 3.0V$ to 3.6V
 - 80ns at $V_{CC} = 2.7V$ to 3.6V
- PIN COMPATIBLE with M27C4001
- LOW POWER CONSUMPTION:
 - 15 μ A max Standby Current
 - 15mA max Active Current at 5MHz
- PROGRAMMING TIME 100 μ s/byte (typical)
- HIGH RELIABILITY CMOS TECHNOLOGY
 - 2,000V ESD Protection
 - 200mA Latchup Protection Immunity
- ELECTRONIC SIGNATURE
 - Manufacturer Code: 20h
 - Device Code: 41h



DESCRIPTION

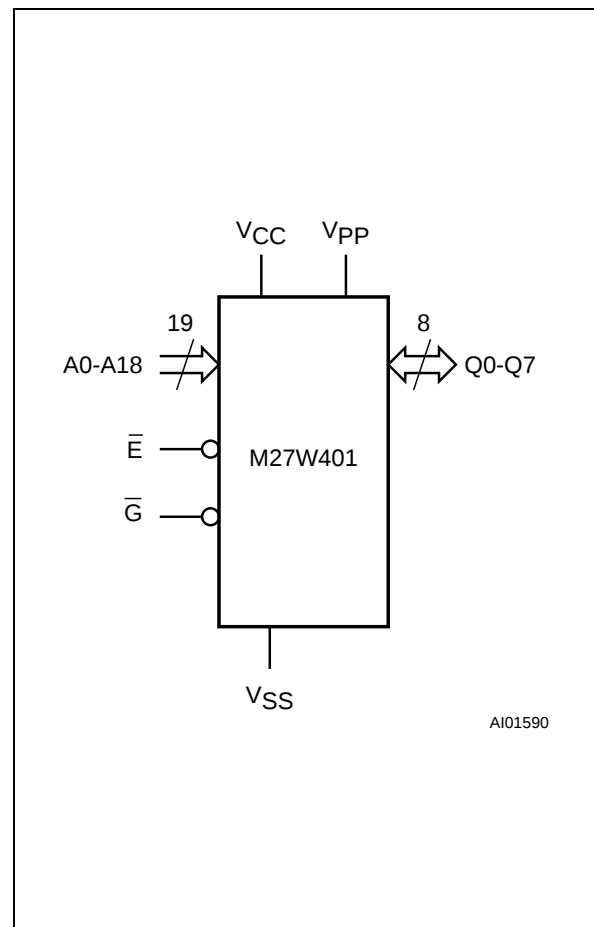
The M27W401 is a low voltage 4 Mbit EPROM offered in the OTP range (one time programmable). It is ideally suited for microprocessor systems requiring large data or program storage and is organised as 524,288 by 8 bits.

The M27W401 operates in the read mode with a supply voltage as low as 2.7V at -40 to $85^{\circ}C$ temperature range. The decrease in operating power allows either a reduction of the size of the battery or an increase in the time between battery recharges.

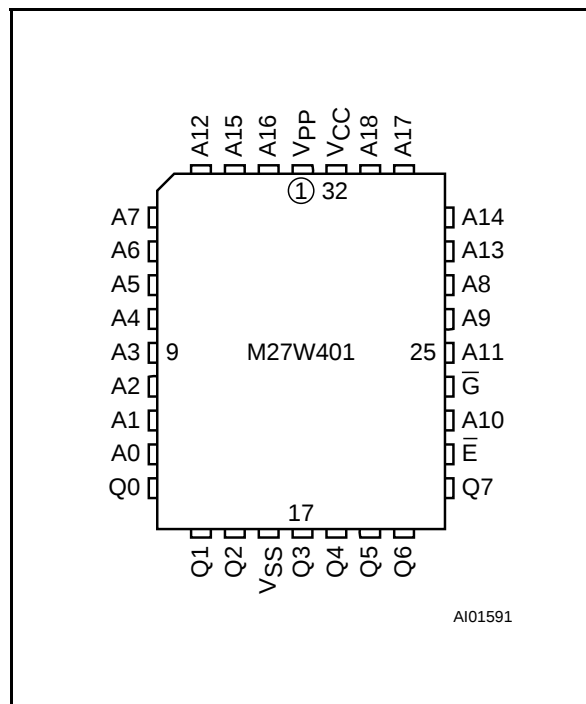
Signal Names

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

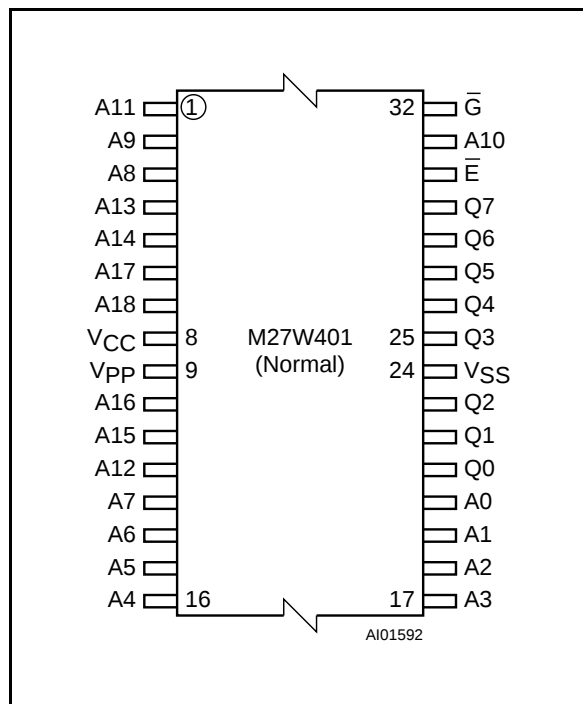
Logic Diagram



LCC Pin Connections



TSOP Pin Connections



ORDERING INFORMATION SCHEME

Example: M27W401 -80 K 6 TR

Speed	Packages	Temperature Range	Option
-80 ^(1,2) 80 ns	K PLCC32	6 -40 to 85 °C	TR Tape & Reel Packing
-100 100 ns	N TSOP32 8 x 20mm		

NOT FOR NEW DESIGN ⁽³⁾	
-120	120 ns
-150	150 ns
-200	200 ns

Notes: 1. High Speed, see AC Characteristics section for further information.
 2. This speed also guarantees 70ns access time at $V_{CC} = 3.0V$ to $3.6V$.
 3. These speeds are replaced by the 100ns.

For a list of available options (Speed, Package, etc...) or for further information on any aspect of this device, please contact the STMicroelectronics Sales Office nearest to you.