

# 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<sub>CC</sub> = 3.0V to 3.6V
  - 80ns at V<sub>CC</sub> = 2.7V to 3.6V
- PIN COMPATIBLE with M27C4001
- LOW POWER CONSUMPTION:
  - 15µA max Standby Current
  - 15mA max Active Current at 5MHz
- PROGRAMMING TIME 100µs/byte (typical)
- HIGH RELIABILITY CMOS TECHNOLOGY
  2.000V ESD Protection
  - 200m A Lataburg Distantian
  - 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.

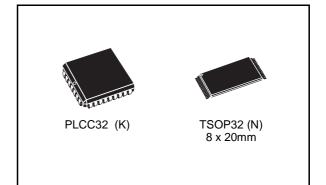
The M27W401 operates in the read mode with a supply voltage as low as 2.7V at -40 to  $85^{\circ}C$  temperature range. The decrease in operating power allows either a reduction of the size of the battery or an increase in the time between battery recharges.

#### **Signal Names**

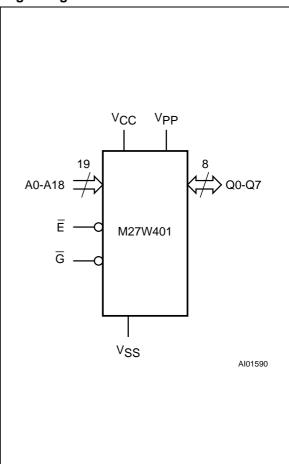
A0-A18	Address Inputs
Q0-Q7	Data Outputs
Ē	Chip Enable
G	Output Enable
V <sub>PP</sub>	Program Supply
V <sub>CC</sub>	Supply Voltage
V <sub>SS</sub>	Ground

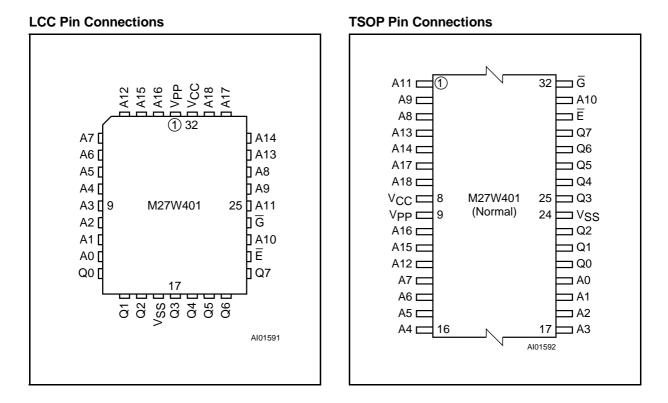
#### B27W401/807

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

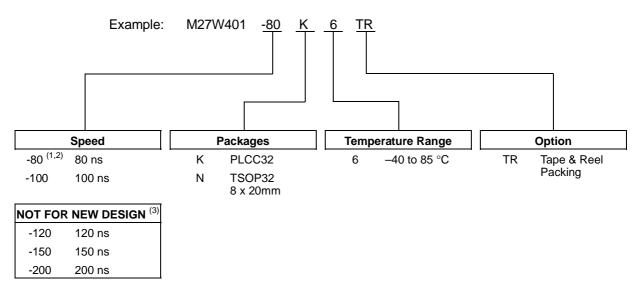


#### Logic Diagram





#### **ORDERING INFORMATION SCHEME**



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.

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