

M27W801

8 Mbit (1Mb x 8) Low Voltage OTP EPROM

DATA BRIEFING

- LOW VOLTAGE READ OPERATION: 2.7V to 3.6V
- FAST ACCESS TIME:
 - 70ns at V_CC = 3.0V to 3.6V
 - 80ns at V_{CC} = 2.7V to 3.6V
- LOW POWER CONSUMPTION:
 - Active Current 15mA
 - Standby Current 20µA
- PROGRAMMING VOLTAGE: 12.75V ± 0.25V
- PROGRAMMING TIMES of AROUND 52sec. (PRESTO IIB ALGORITHM)
- ELECTRONIC SIGNATURE
 - Manufacturer Code: 20h
 - Device Code: 42h



Logic Diagram

DESCRIPTION

The M27W801 is a low voltage 8 Mbit EPROM offered in the OTP ranges (one time programmable). It is ideally suited for microprocessor systems requiring large data or program storage and is organized as 1,048,576 by 8 bits.

The M27W801 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.

The M27W801 is offered in PLCC32 and TSOP32 (8 x 20 mm) packages.

Signal Names

A0-A19	Address Inputs
Q0-Q7	Data Outputs
Ē	Chip Enable
$\overline{G}V_PP$	Output Enable / Program Supply
V _{CC}	Supply Voltage
V _{SS}	Ground



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









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 (M27V801).

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 SGS-THOMSON Sales Office nearest to you.

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