

M27W101

1 Mbit (128Kb 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 M27C1001
- 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
 - 200mA Latchup Protection Immunity
- ELECTRONIC SIGNATURE
 - Manufacturer Code: 20h
 - Device Code: 05h

DESCRIPTION

The M27W101 is a low voltage 1 Mbit EPROM offered in the OTP (one time programmable) range. It is ideally suited for microprocessor systems requiring large data or program storage and is organized as 131,072 by 8 bits.

The M27W101 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-A16	Address Inputs
Q0-Q7	Data Outputs
E	Chip Enable
G	Output Enable
Р	Program
V _{PP}	Program Supply
V _{CC}	Supply Voltage
V _{SS}	Ground

B27W101/807

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



Logic Diagram









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Warning: NC = Not Connected.

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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.