

M27W512

512 Kbit (64Kb x 8) Low Voltage OTP EPROM

DATA BRIEFING

- LOW VOLTAGE READ OPERATION: 2.7V to 3.6V
- FAST READ ACCESS TIME:
 - 90ns at V_{CC} = 3.0V to 3.6V
 - 100ns at V_{CC} = 2.7V to 3.6V
- PIN COMPATIBLE with M27C512
- 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: 3Dh

DESCRIPTION

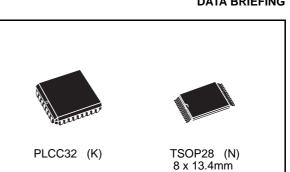
The M27W512 is a low voltage 512 Kbit EPROM offered in the OTP range (one time programmable). It is ideally suited for microprocessor systems and is organized as 65,536 by 8 bits.

The M27W512 operates in the read mode with a supply voltage as low as 2.7V at -40 to 85°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.

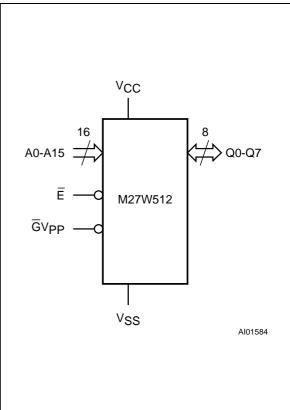
The M27W512 is offered in PLCC32 and TSOP28 (8 x 13.4 mm) packages.

Signal Names

A0-A15	Address Inputs
Q0-Q7	Data Outputs
Ē	Chip Enable
GV _{PP}	Output Enable / Program Supply
V _{CC}	Supply Voltage
V _{SS}	Ground

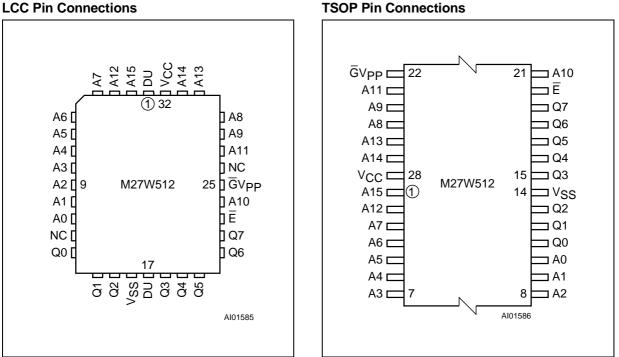


Logic Diagram



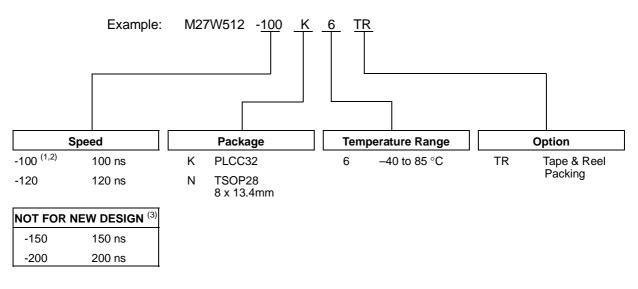
B27W512/809

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



Warning: NC = Not Connected, DU = Don't Use





Notes: 1. High Speed, see AC Characteristics section for further information.

2. This speed also guarantees 90ns access time at $V_{CC} = 3.0V$ to 3.6V. 3. These speeds are replaced by the 120ns.

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.

57