

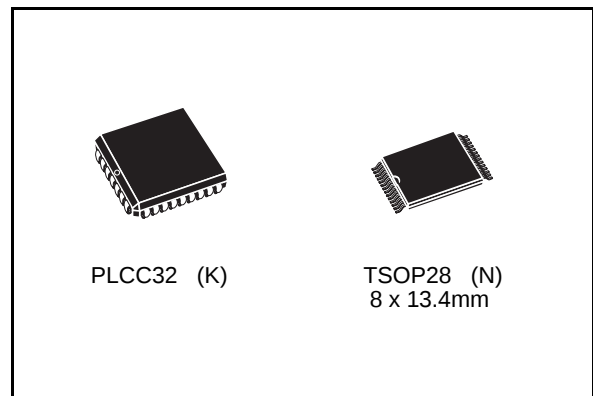


M27W512

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:**
 - 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: 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 $85^{\circ}C$ 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 M27W512 is offered in PLCC32 and TSOP28 (8 x 13.4 mm) packages.

Signal Names

A0-A15	Address Inputs
Q0-Q7	Data Outputs
$\bar{E}$	Chip Enable
$\bar{G}V_{PP}$	Output Enable / Program Supply
V_{CC}	Supply Voltage
V_{SS}	Ground

Logic Diagram

