



M27V801

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

DATA BRIEFING

- **LOW VOLTAGE READ OPERATION:**
3V to 3.6V
- **FAST ACCESS TIME:** 120ns
- **LOW POWER CONSUMPTION:**
 - Active Current 15mA at 5MHz
 - Standby Current 20µA
- **PROGRAMMING VOLTAGE:** 12.75V \pm 0.25V
- **PROGRAMMING TIME:** 100µs/byte (typical)
- **ELECTRONIC SIGNATURE**
 - Manufacturer Code: 20h
 - Device Code: 42h

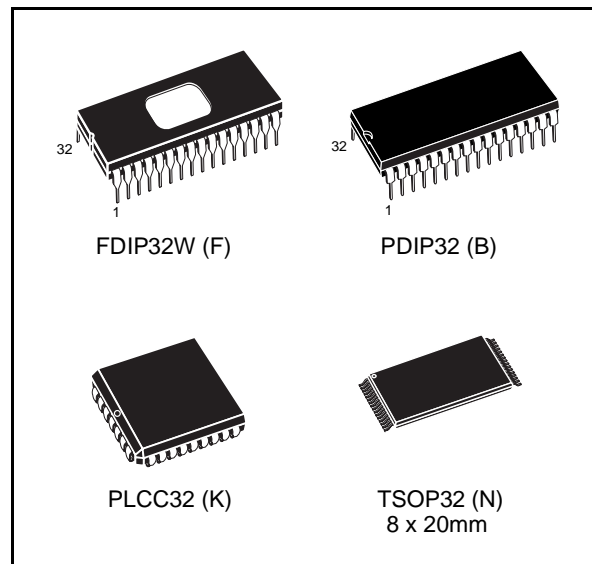
DESCRIPTION

The M27W801 is a low voltage 8 Mbit EPROM offered in the two ranges UV (ultra violet erase) and OTP (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.

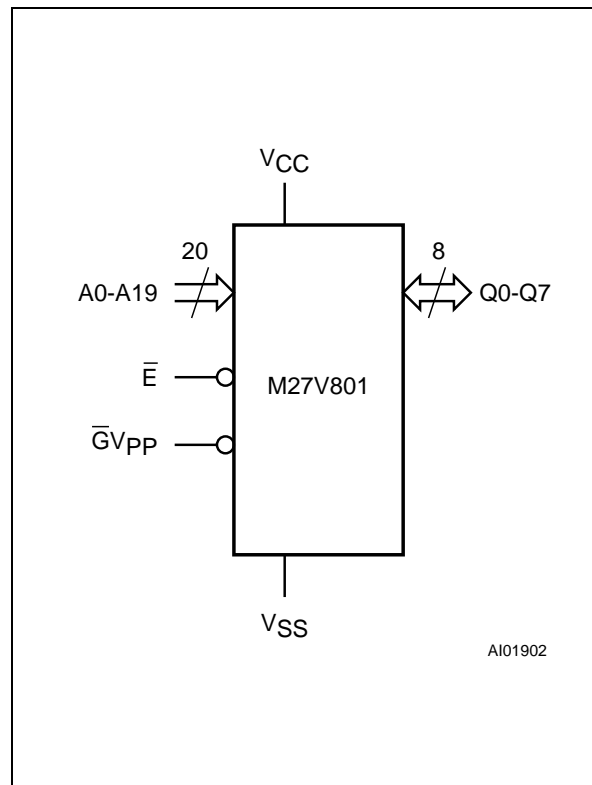
The M27V801 operates in the read mode with a supply voltage as low as 3V. The decrease in operating power allows either a reduction of the size of the battery or an increase in the time between battery recharges.

The FDIP32W (window ceramic frit-seal package) has transparent lid which allows the user to expose the chip to ultraviolet light to erase the bit pattern. A new pattern can then be written to the device by following the programming procedure.

For applications where the content is programmed only one time and erasure is not required, the M27V801 is offered in PDIP32, PLCC32 and TSOP32 (8 x 20 mm) packages.

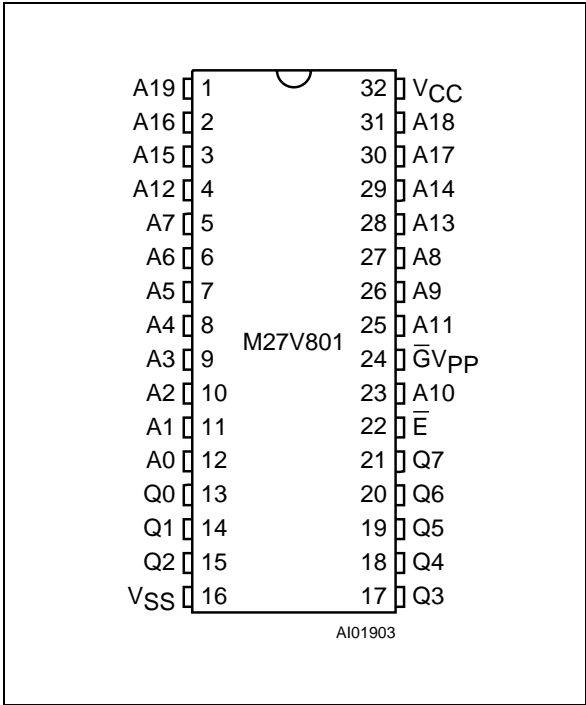


Logic Diagram

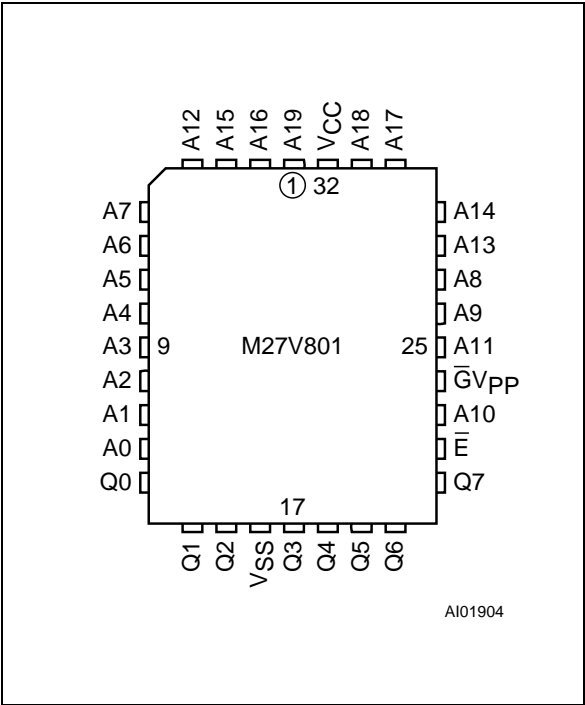


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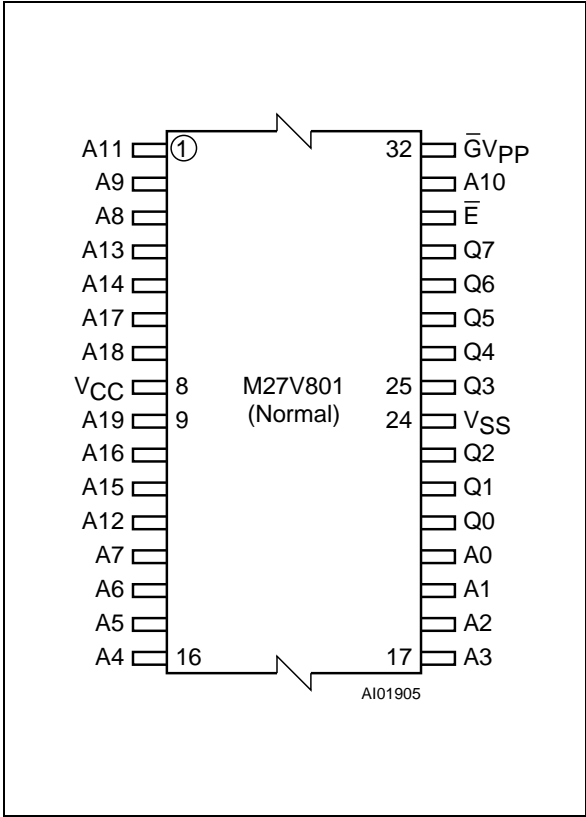
DIP Pin Connections



PLCC Pin Connections



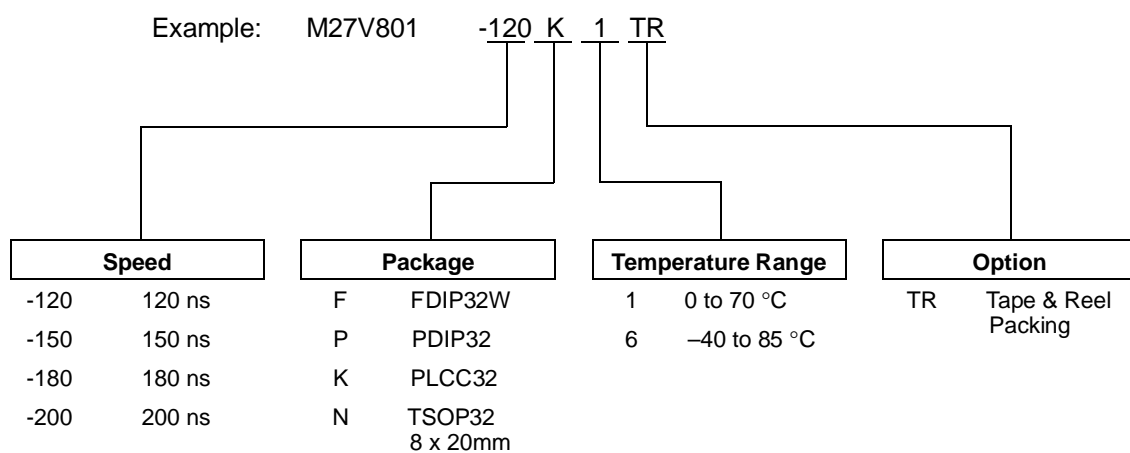
TSOP Pin Connections



Signal Names

A0-A19	Address Inputs
Q0-Q7	Data Outputs
\overline{E}	Chip Enable
\overline{GV}_{PP}	Output Enable / Program Supply
VCC	Supply Voltage
VSS	Ground

ORDERING INFORMATION SCHEME



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.