



1 Mbit (64Kb x 16) Low Voltage UV EPROM and OTP EPROM

DATA BRIEFING

- **LOW VOLTAGE READ OPERATION:**
3V to 3.6V
- **FAST ACCESS TIME:** 90ns
- **LOW POWER CONSUMPTION:**
 - Active Current 15mA at 5MHz
 - Standby Current 20 μ A
- **PROGRAMMING VOLTAGE:** 12.75V \pm 0.25V
- **PROGRAMMING TIME:** 100 μ s/byte (typical)
- **ELECTRONIC SIGNATURE**
 - Manufacturer Code: 0020h
 - Device Code: 008Ch

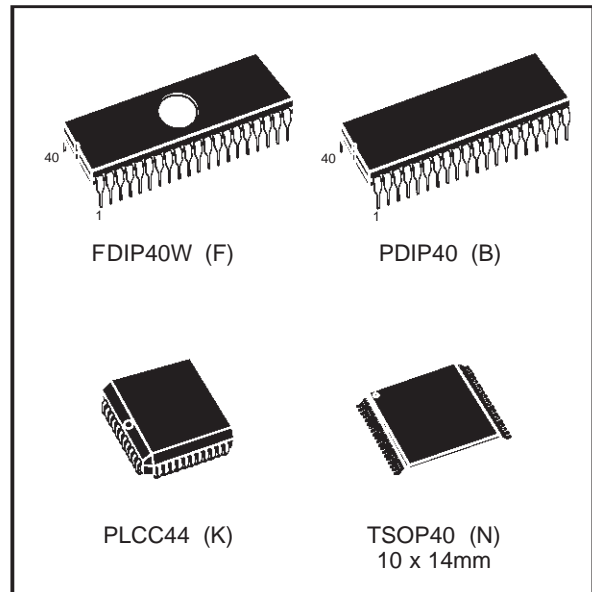
DESCRIPTION

The M27W102 is a low voltage 1 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 65,536 words by 16 bits.

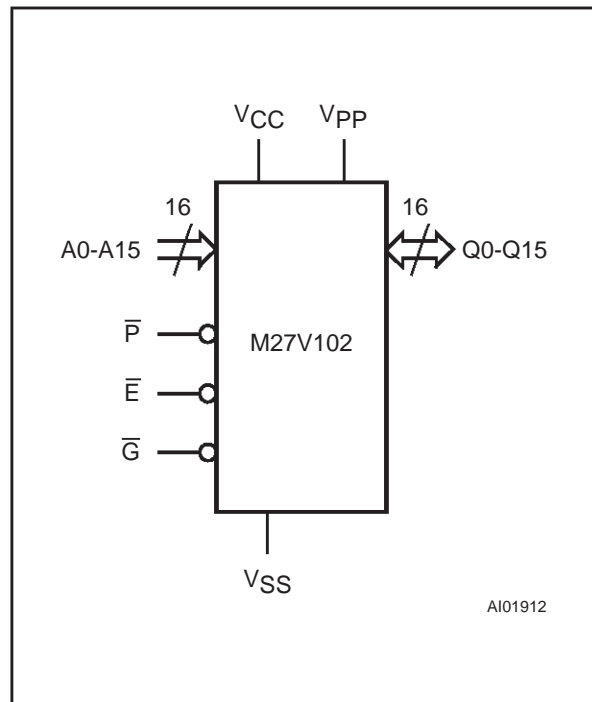
The M27V102 operates in the read mode with a supply voltage as low as 3V. The decrease in operating power allows either a reduction of the size of the battery or an increase in the time between battery recharges.

The FDIP40W (window ceramic frit-seal package) has a 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 application where the content is programmed only one time and erasure is not required, the M27V102 is offered in PDIP40, PLCC32 and TSOP40 (10 x 14 mm) package.

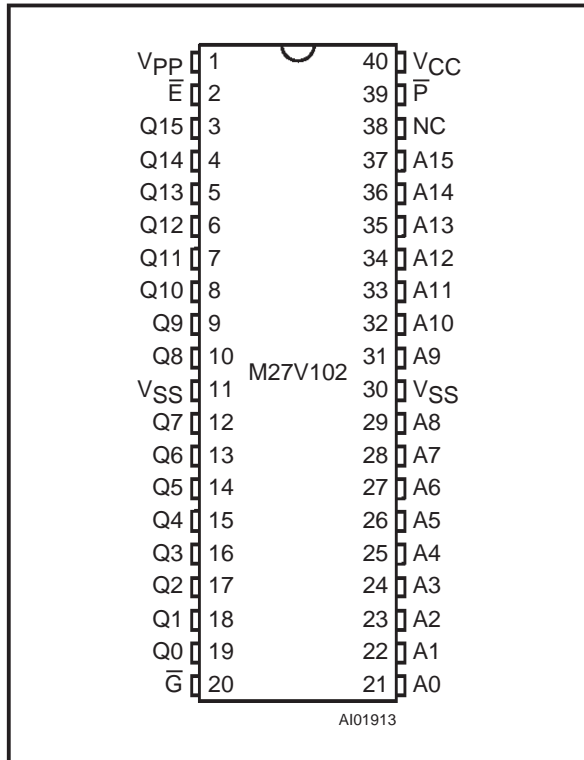


Logic Diagram



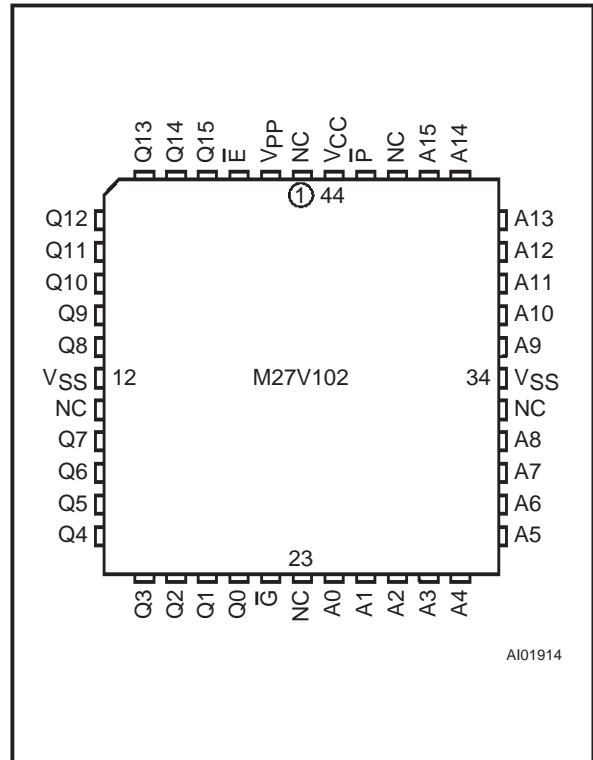
M27V102

DIP Pin Connections



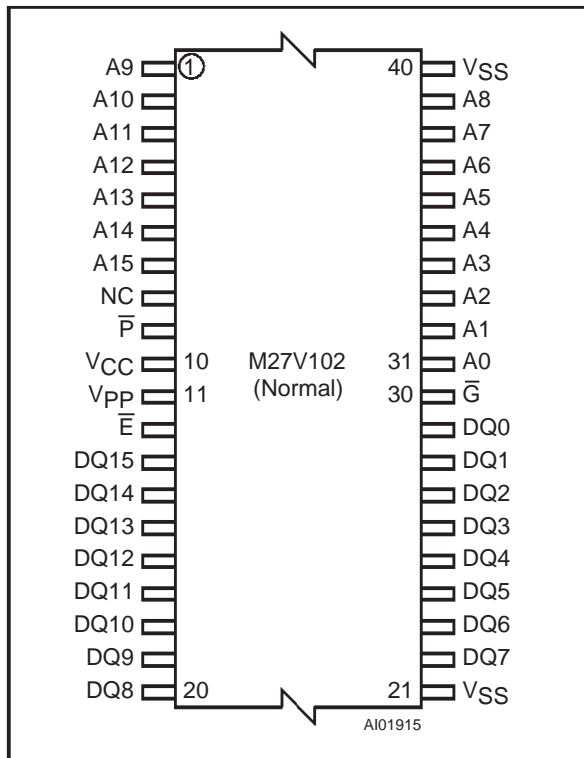
Warning: NC = Not Connected.

LCC Pin Connections



Warning: NC = Not Connected.

TSOP Pin Connections

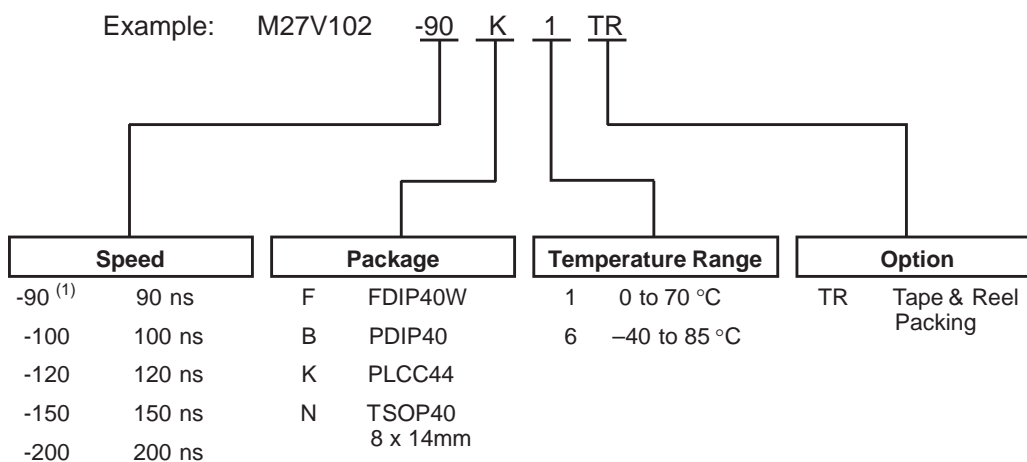


Warning: NC = Not Connected.

Signal Names

A0-A15	Address Inputs
Q0-Q15	Data Outputs
\bar{E}	Chip Enable
\bar{G}	Output Enable
\bar{P}	Program
V_{PP}	Program Supply
V_{CC}	Supply Voltage
V_{SS}	Ground

ORDERING INFORMATION SCHEME



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

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.