



M27C800

8 Mbit (1Mb x8 or 512Kb x16) UV EPROM and OTP EPROM

DATA BRIEFING

- $5V \pm 10\%$ SUPPLY VOLTAGE in READ OPERATION
- FAST ACCESS TIME: 70ns
- BYTE-WIDE or WORD-WIDE CONFIGURABLE
- 8 Mbit MASK ROM REPLACEMENT
- LOW POWER CONSUMPTION
 - Active Current 70mA at 8MHz
 - Stand-by Current $100\mu A$
- PROGRAMMING VOLTAGE: $12.5V \pm 0.25V$
- PROGRAMMING TIME: $100\mu s/\text{byte}$ (typical)
- ELECTRONIC SIGNATURE
 - Manufacturer Code: 0020h
 - Device Code: 00B2h

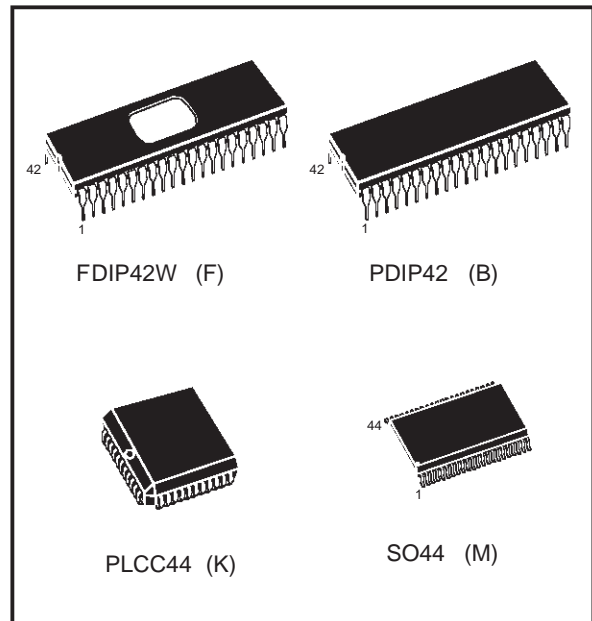
DESCRIPTION

The M27C800 is an 8 Mbit EPROM offered in the two ranges UV (ultra violet erase) and OTP (one time programmable). It is ideally suited for micro-processor systems requiring large data or program storage. It is organised as either 1 Mwords of 8 bit or 512 Kwords of 16 bit. The pin-out is compatible with the most common 8Mb Mask ROM.

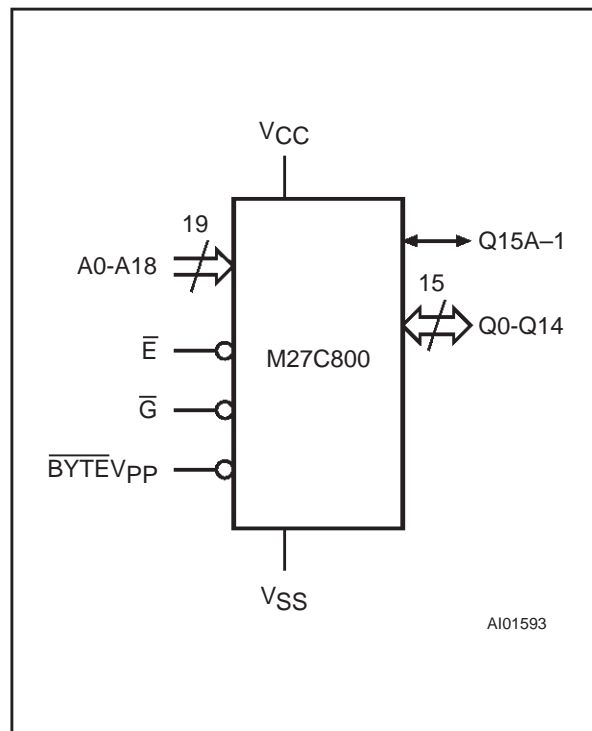
The FDIP42W (window ceramic frit-seal package) has a transparent lid which allows the user to expose the chip to ultraviolet light to erase the bit pattern.

A new pattern can then be written rapidly to the device by following the programming procedure.

For applications where the content is programmed only one time and erasure is not required, the M27C800 is offered in PDIP42, PLCC44 and SO44 packages.

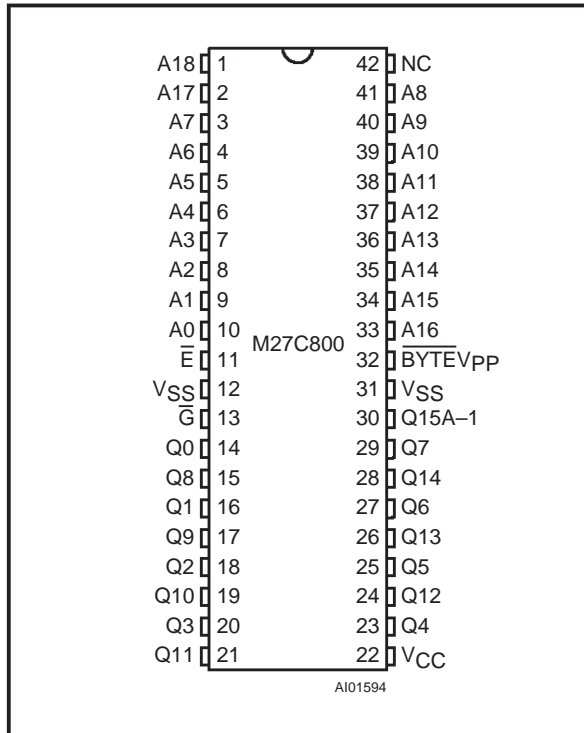


Logic Diagram



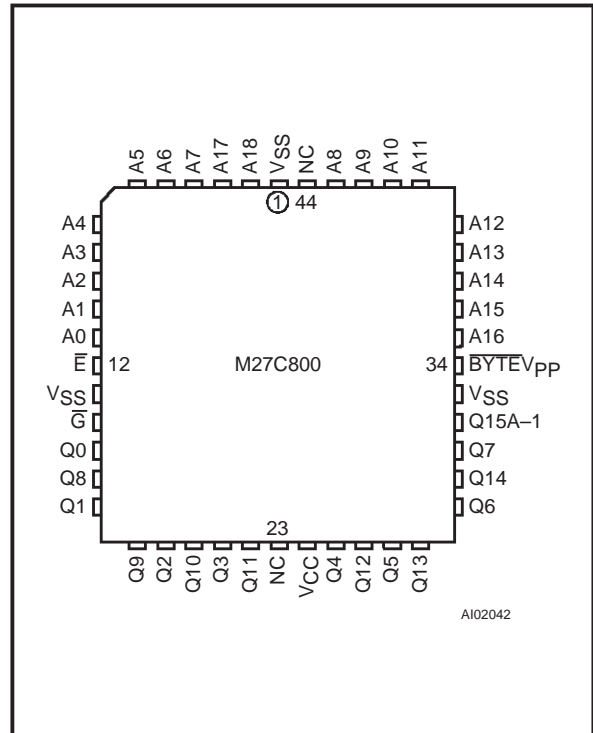
M27C800

DIP Pin Connections



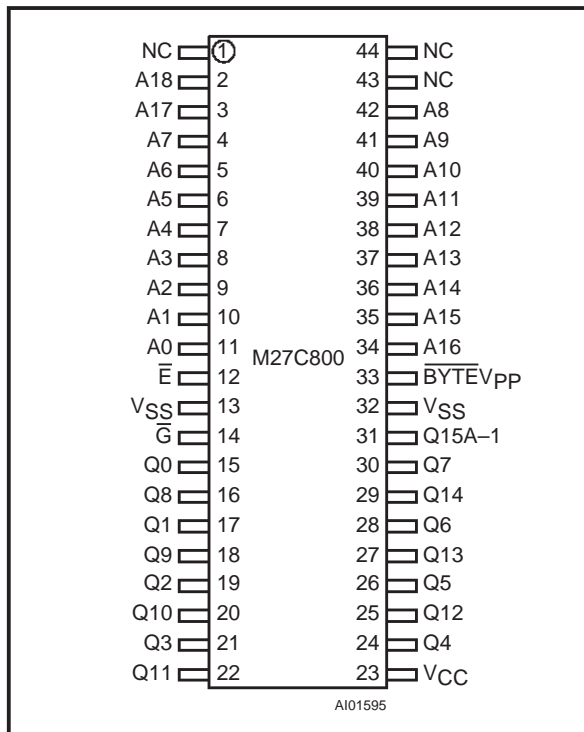
Warning: NC = Not Connected.

LCC Pin Connections



Warning: NC = Not Connected.

SO Pin Connections

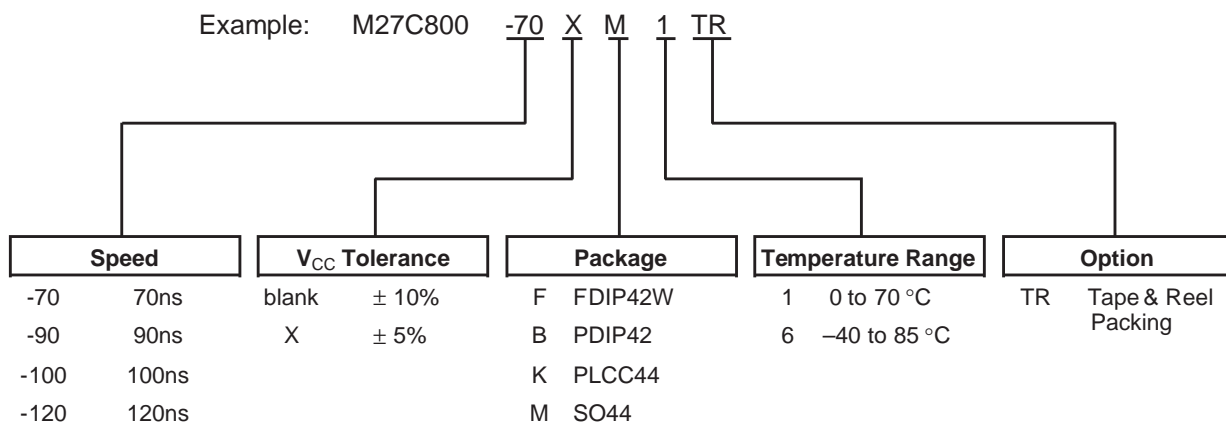


Warning: NC = Not Connected.

Signal Names

A0-A18	Address Inputs
Q0-Q7	Data Outputs
Q8-Q14	Data Outputs
Q15A-1	Data Output / Address Input
\bar{E}	Chip Enable
\bar{G}	Output Enable
$\overline{BYTEVPP}$	Byte Mode / 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.