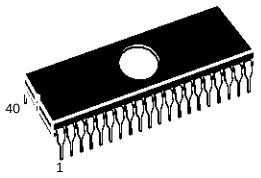
SGS-THOMSON MICROELECTRONICS

M27C1024

1 Megabit (64K x16) UV EPROM and OTP EPROM

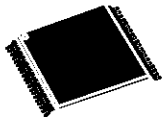
DATA BRIEFING

- FAST ACCESS TIME: 55ns
- LOW POWER "CMOS" CONSUMPTION:
  - Active Current 35mA
  - Standby Current 100µA
- PROGRAMMING VOLTAGE: 12.75V
- ELECTRONIC SIGNATURE for AUTOMATED PROGRAMMING
- PROGRAMMING TIME of AROUND 6 sec. (PRESTO II ALGORITHM)



FDIP40W (F)

PLCC44 (C)



TSOP40 (N)
10 x 14mm

DESCRIPTION

The M27C1024 is a high speed 1 Megabit UV erasable and electrically programmable EPROM. It is organized as 65,536 words by 16 bits.

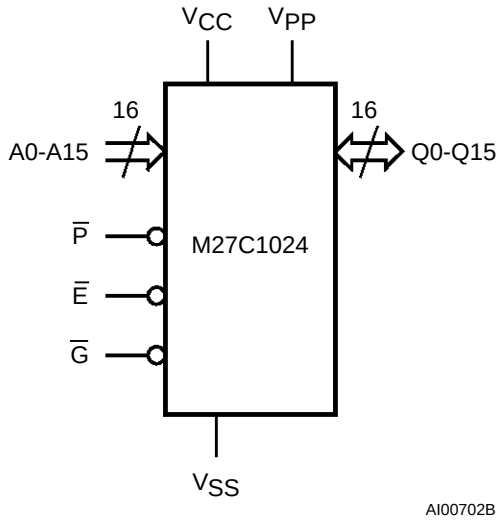
The Ceramic Frit Seal Window package has a transparent lid which allows the user to expose the chip to ultraviolet light to erase the bit pattern. A new pattern can then be written to the device by following the programming procedure.

For application where the content is programmed only one time and erasure is not required, the M27C1024 is offered in a Plastic Leaded Chip Carrier package.

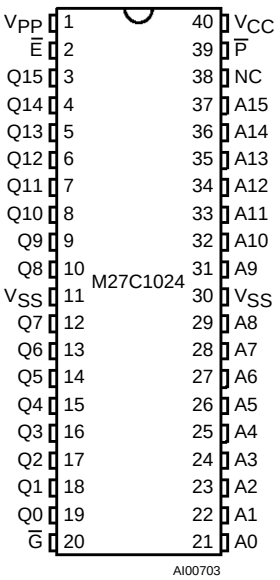
Signal Names

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

Logic Diagram

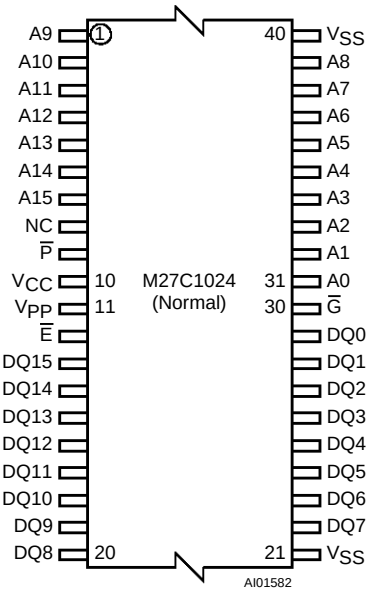


DIP Pin Connections



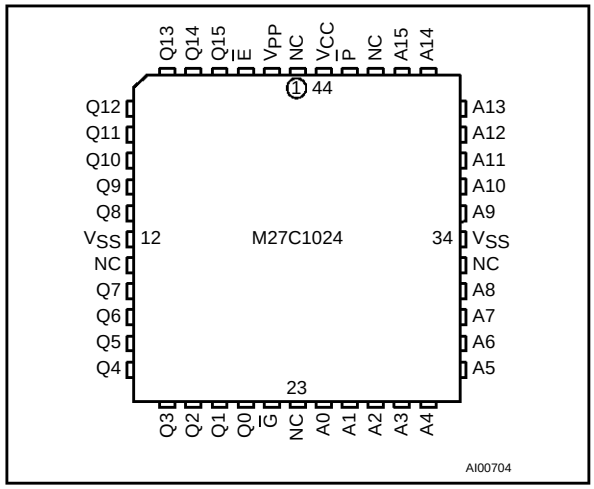
Warning: NC = Not Connected.

TSOP Pin Connections



Warning: NC = Not Connected.

LCC Pin Connections



Warning: NC = Not Connected.

Ordering Information Scheme

For a list of available options refer to the current Memory Shortform catalogue.
For further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.

Example: M27C1024 -12 X C 1 X

Speed
- -55 55ns
- -70 70ns
- -80 80ns
- -90 90ns
- -10 100ns
- -12 120ns
- -15 150ns
- -20 200ns
- -25 250ns

V_{CC} Tolerance
- X ± 5V
- blank ± 10V

Package
- F FDIP40W
- C PLCC44
- N TSOP40 8 x 20mm

Temp. Range
- 1 0 to 70 °C
- 6 –40 to 85 °C
- 7 –40 to 105 °C

Option
- X Additional Burn-in
- TR Tape & Reel Packing