SGS-THOMSON MICROELECTRONICS
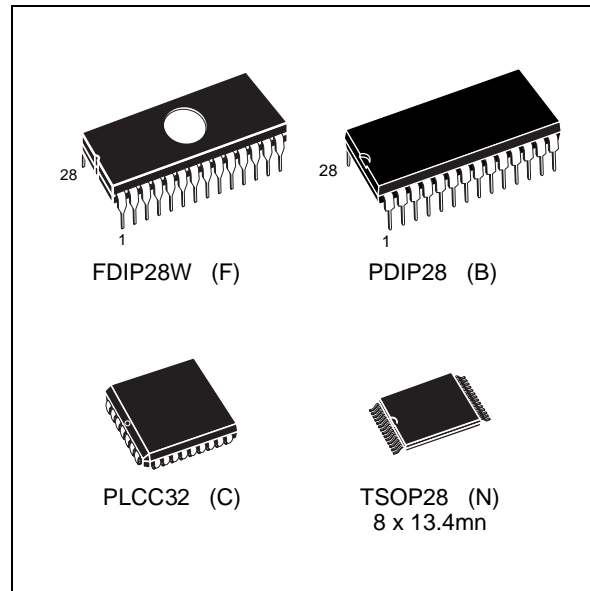
M27C256B

256K (32K x 8) UV EPROM and OTP EPROM

- FAST ACCESS TIME: 45ns
- LOW POWER "CMOS" CONSUMPTION:
  - Active Current 30mA
  - Standby Current 100μA
- PROGRAMMING VOLTAGE: 12.75V
- ELECTRONIC SIGNATURE for AUTOMATED PROGRAMMING
- PROGRAMMING TIMES of AROUND 3sec. (PRESTO II ALGORITHM)

FDIP28W (F)   PDIP28 (B)

PLCC32 (C)   TSOP28 (N)
                    8 x 13.4mn

DESCRIPTION

The M27C256B is a high speed 262,144 bit UV erasable and electrically programmable EPROM ideally suited for microprocessor systems. It is organized as 32,768 by 8 bits.

The Window Ceramic Frit-Seal Dual-in-Line 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 applications where the content is programmed only one time and erasure is not required, the M27C256B is offered in Plastic Dual-in-Line, Plastic Leaded Chip Carrier, and Plastic Thin Small Outline packages.
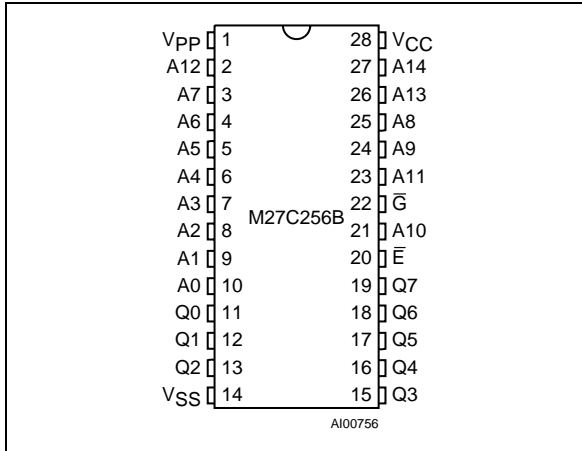
Logic Diagram

AI00755B

Signal Names

A0 - A14	Address Inputs
Q0 - Q7	Data Outputs
$\overline{E}$	Chip Enable
$\overline{G}$	Output Enable
V_{PP}	Program Supply
V_{CC}	Supply Voltage
V_{SS}	Ground
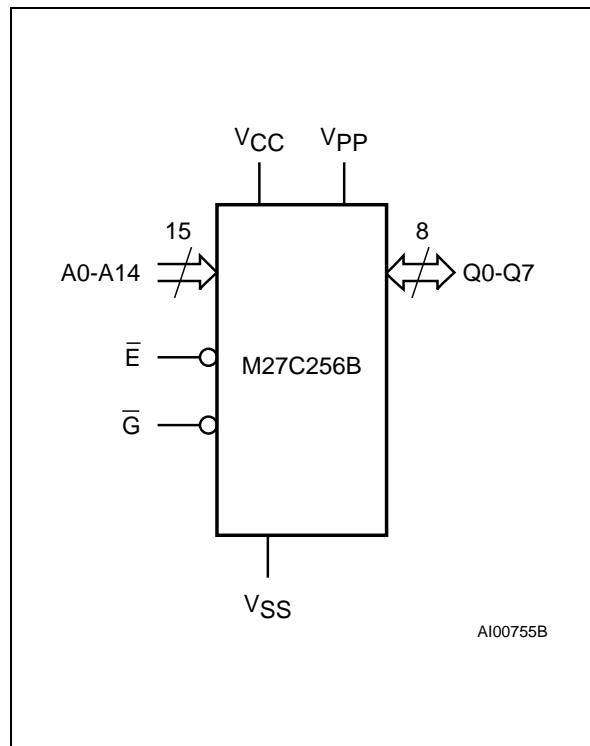
DIP Pin Connections

AI00756

TSOP Pin Connections

AI00614B
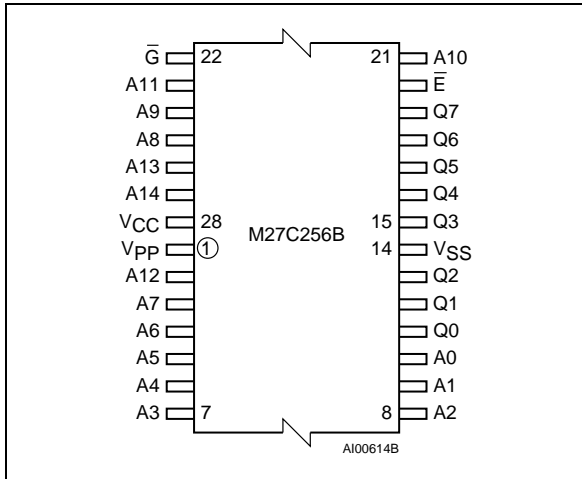
LCC Pin Connections

AI00757
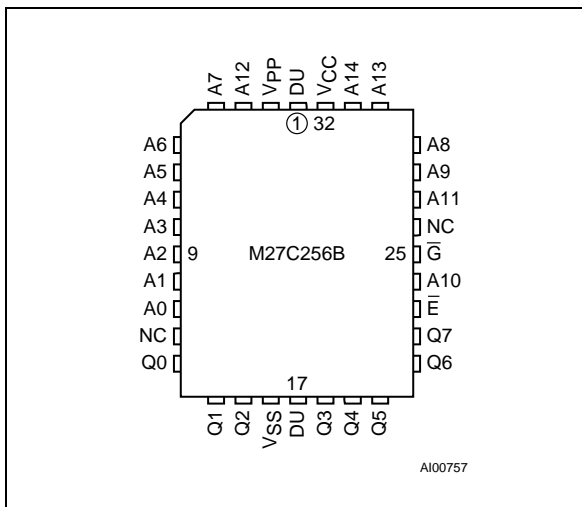
Warning: NC = Not Connected, DU = Dont't Use.

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: M27C256B -70 X   C   1   X

Speed
-45 45ns
-60 60ns
-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   FDIP28W
B   PDIP28
C   PLCC32
N   TSOP28 8 x 13.4mm

Temp. Range
1   0 to 70 °C
3   −40 to 125 °C
6   −40 to 85 °C
7   −40 to 105 °C

Option
X   Additional Burn-in
TR Tape & Reel Packing