

Memory

Order code	Manufacturer code	Description
73-3034	M27C256B-15B1	27C256-150 M27C256B-15F1 150NS EPROM

Memory	Page 1 of 3
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

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

DATA BRIEFING

- 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)

DESCRIPTION

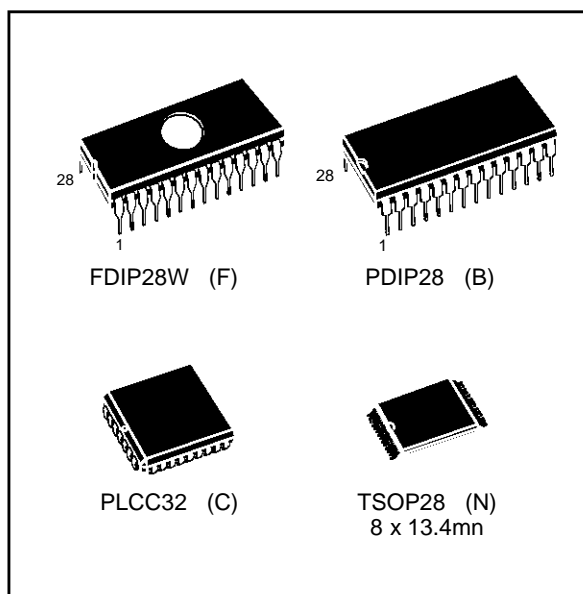
The M27C256B is a high speed 262,144 bit UV erasable and electrically programmable EPROM ideally suited for microprocessor systems. It is organized as 32,768 by 8 bits.

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.

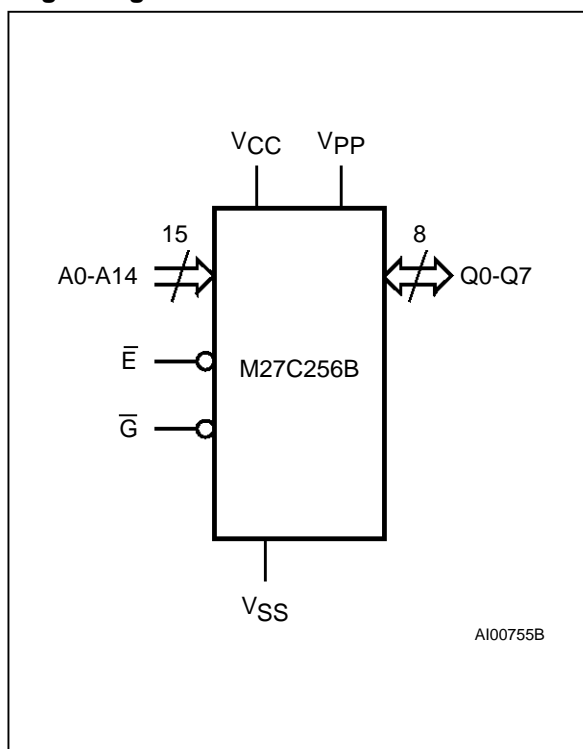
For applications where the content is programmed only one time and erasure is not required, the M27C256B is offered in Plastic Dual-in-Line, Plastic Leaded Chip Carrier, and Plastic Thin Small Outline packages.

Signal Names

A0 - A14	Address Inputs
Q0 - Q7	Data Outputs
\bar{E}	Chip Enable
\bar{G}	Output Enable
V _{PP}	Program Supply
V _{CC}	Supply Voltage
V _{SS}	Ground

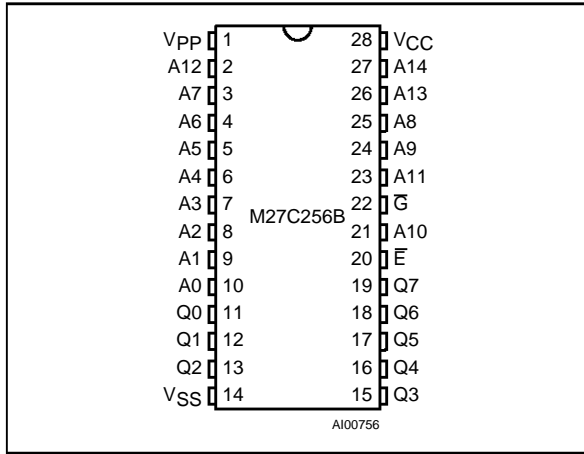


Logic Diagram

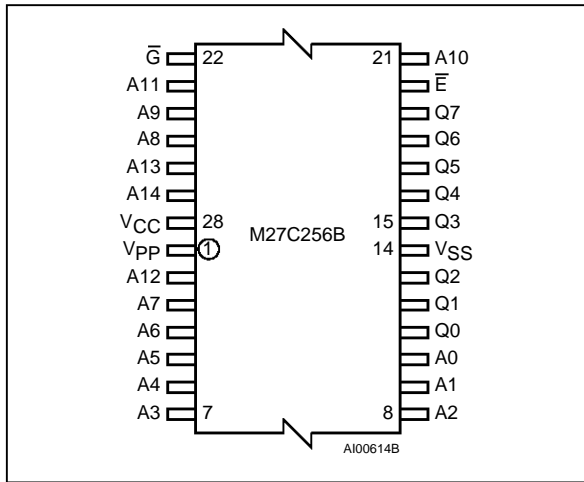


M27C256B

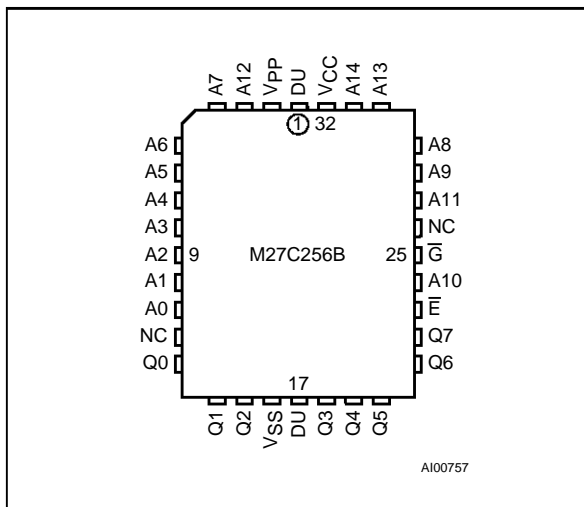
DIP Pin Connections



TSOP Pin Connections



LCC Pin Connections



Warning: NC = Not Connected, DU = Don'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	-70	X	C	1	X
-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			