

## 4 Megabit (512K x 8) UV EPROM and OTP EPROM

### DATA BRIEFING

- FAST ACCESS TIME: 55ns
- LOW POWER "CMOS" CONSUMPTION:
  - Active Current 30mA at 5MHz
  - Standby Current 100µA
- PROGRAMMING VOLTAGE: 12.75V
- ELECTRONIC SIGNATURE for AUTOMATED PROGRAMMING
- PROGRAMMING TIMES of AROUND 48sec. (PRESTO II ALGORITHM)

### DESCRIPTION

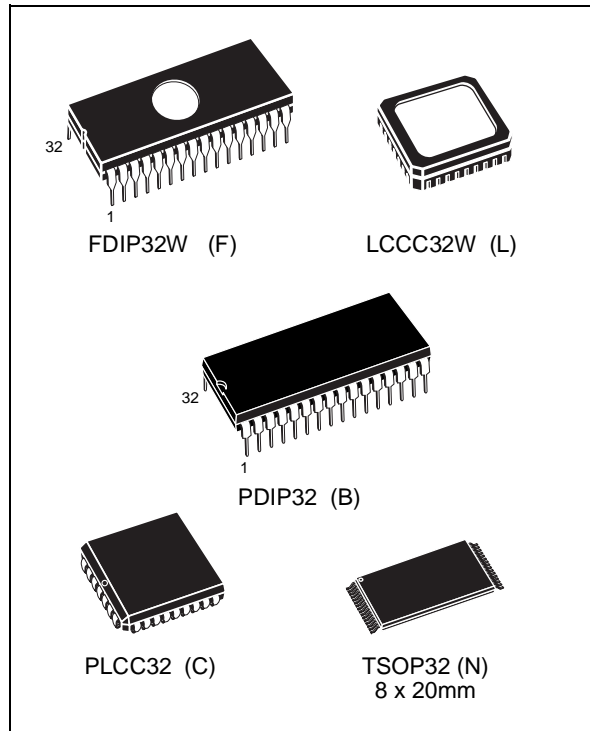
The M27C4001 is a high speed 4 Megabit UV erasable and electrically programmable EPROM ideally suited for microprocessor systems requiring large programs. It is organised as 524,288 by 8 bits.

The Window Ceramic Frit-Seal Dual-in-Line and Leadless Chip Carrier packages have transparent lids which allow 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.

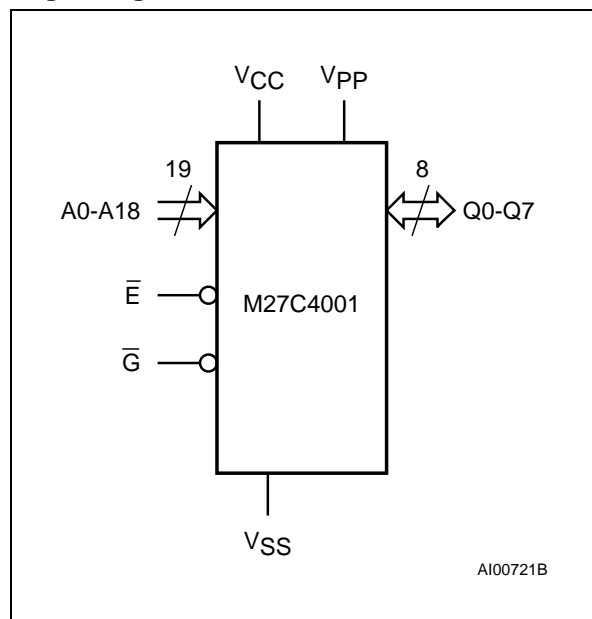
For applications where the content is programmed only one time and erasure is not required, the M27C4001 is offered in both Plastic Leaded Chip Carrier and Plastic Thin Small Outline packages.

### Signal Names

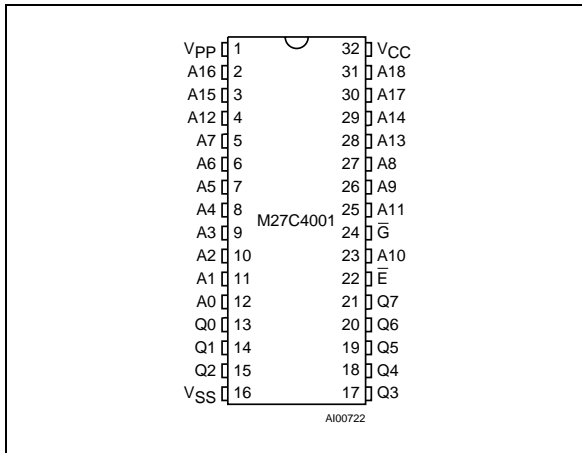
A0 - A18	Address Inputs
Q0 - Q7	Data Outputs
$\bar{E}$	Chip Enable
$\bar{G}$	Output Enable
V <sub>PP</sub>	Program Supply
V <sub>CC</sub>	Supply Voltage
V <sub>SS</sub>	Ground



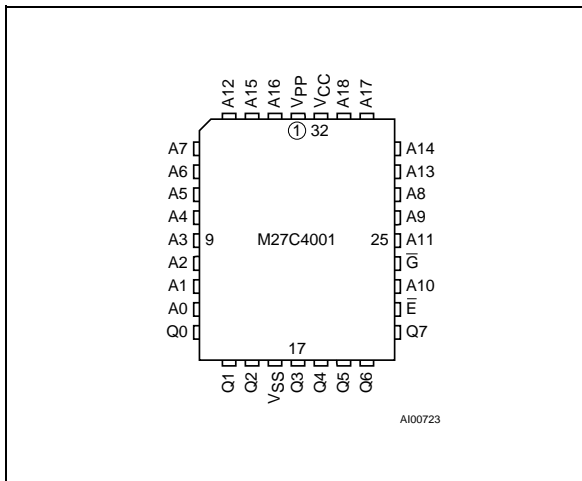
### Logic Diagram



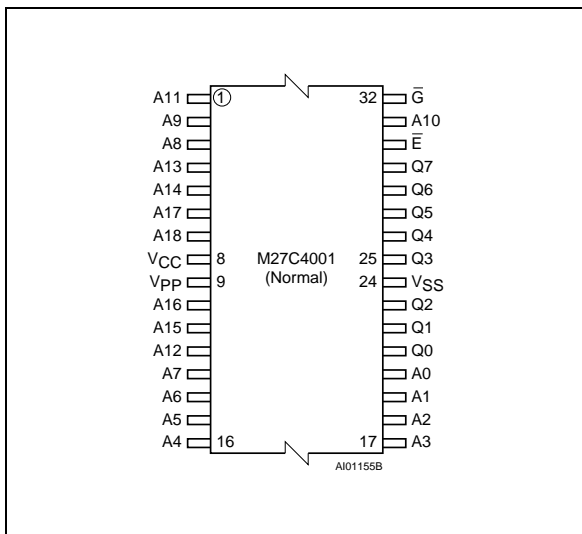
**DIP Pin Connections**



**LCC Pin Connections**



**TSOP Pin Connections**



**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: M27C4001 -80 X C 1 X

<b>Speed</b>	-80	X	C	1	X
-55	55ns				
-70	70ns				
-80	80ns				
-90	90ns				
-10	100ns				
-12	120ns				
-15	150ns				
<b>V<sub>CC</sub> Tolerance</b>					
X	± 5V				
blank	± 10V				
<b>Package</b>					
F	FDIP32W				
L	LCCC32W				
B	PDIP32				
C	PLCC32				
N	TSOP32 8 x 20mm				
<b>Temp. Range</b>					
1	0 to 70 °C				
6	-40 to 85 °C				
<b>Option</b>					
X	Additional Burn-in				
TR	Tape & Reel Packing				