勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



## M27C4001

# 4 Mbit (512Kb x 8) UV EPROM and OTP EPROM

#### **DATA BRIEFING**

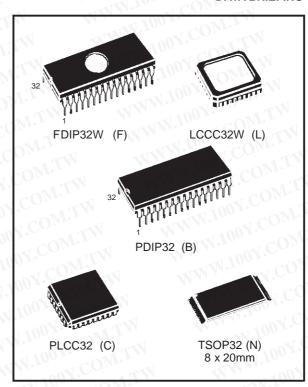
- 5V ± 10% SUPPLY VOLTAGE in READ OPERATION
- FASTACCESS TIME: 35ns
- LOW POWER CONSUMPTION:
  - Active Current 30mA at 5MHz
  - Standby Current 100μA
- PROGRAMMING VOLTAGE: 12.75V ± 0.25V
- PROGRAMMING TIMES of AROUND 48sec. (PRESTO II ALGORITHM)
- ELECTRONIC SIGNATURE
  - Manufacturer Code: 20h
  - Device Code: 41h

#### **DESCRIPTION**

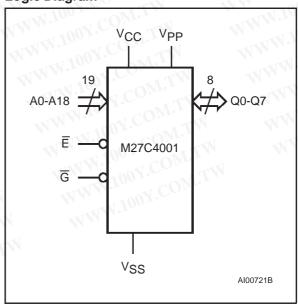
The M27C4001 is a 4 Mbit EPROM offered in the two ranges UV (ultra violet erase) and OTP (one time programmable). It is ideally suited for microprocessor systems requiring large programs and is organised as 524,288 by 8 bits.

The FDIP32W (window ceramic frit-seal package) and LCCC32W (leadless chip carrier package) have a 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 PDIP32, PLCC32 and TSOP32 (8 x 20mm) packages.



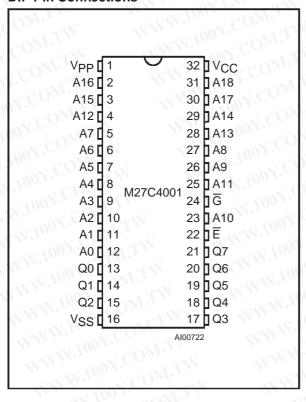
#### **Logic Diagram**



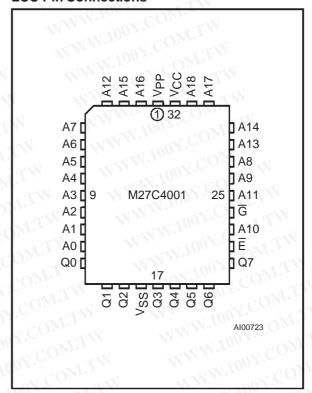
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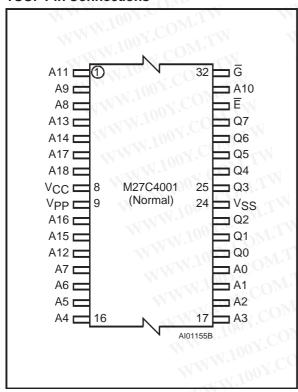
## **DIP Pin Connections**



## **LCC Pin Connections**



### **TSOP Pin Connections**



## **Signal Names**

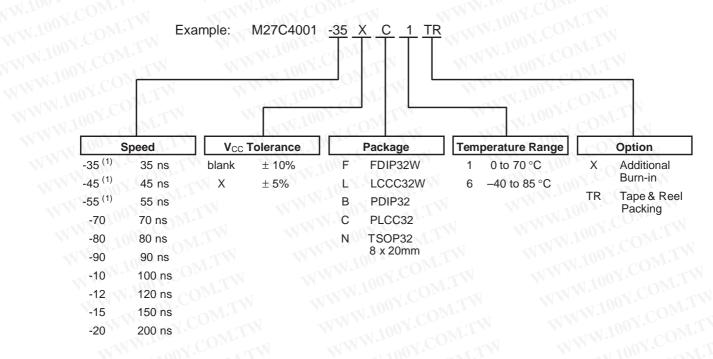
A0-A18	Address Inputs
Q0-Q7	Data Outputs
E 100Y.C	Chip Enable
<u>G</u>	Output Enable
V <sub>PP</sub>	Program Supply
Vcc	Supply Voltage
V <sub>SS</sub>	Ground

M27C4001

## **ORDERING INFORMATION SCHEME**

V.100Y.COM.TW

W.100Y.COM.TW



Note: 1. High Speed, see AC Characteristics section for further information.

For a list of available options (Speed, Package, etc...) or for further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.