



M27C2001

2 Mbit (256Kb x 8) UV EPROM and OTP EPROM

DATA BRIEFING

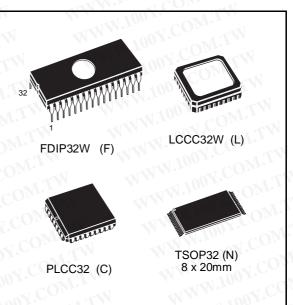
- 5V ± 10% SUPPLY VOLTAGE in READ OPERATION
- FAST ACCESS TIME: 35ns
- LOW POWER "CMOS" CONSUMPTION:
 - Active Current 30mA
- Standby Current 100µA
- PROGRAMMING VOLTAGE: 12.75V ± 0.25V
- PROGRAMMING TIMES of AROUND 24sec. (PRESTO II ALGORITHM)
- ELECTRONIC SIGNATURE
- Manufacturer Code: 20h
- Device Code: 61h

DESCRIPTION

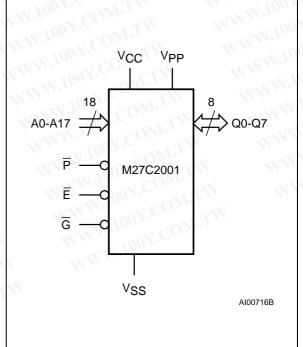
The M27C2001 is a high speed 2 Mbit EPROM offered in the two ranges UV (ultra violet erase) and OTP (one time programmable). It is ideally suited for microprocessor systems requiring large programs and is organised as 262,144 by 8 bits.

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 M27C2001 is offered in both PLCC32 and TSOP32 (8 x 20 mm) packages.



Logic Diagram



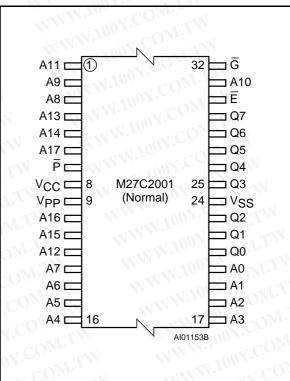
Complete data available on DATA-on-DISC CD-ROM or at www.st.com

V.100Y.COM.TW M27C2001

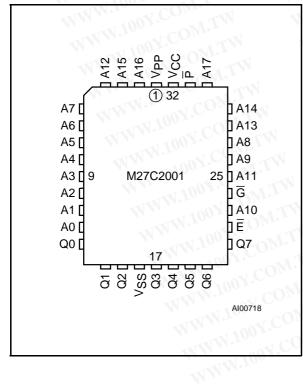
DIP Pin	Connections
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VPP				lvcc
A16 [<u>P</u> P
A15 [30] A17
A12 [4		29] A14
A7 [5		28] A13
A6 [6		27] A8
O A5 [7		26] A9
A4 [8	M27C2001	25	A11
A3 [9	10127 02001	24	٦Ġ
A2 [10		23] A10
A1 [11		22	DE
A0 [12		21] Q7
Q0 [13		20] Q6
Q1 [14		19] Q5
Q2 [15		18] Q4
Vss	16	WTI	17] Q3 🔨
N.10	1.0	Al	00717	





LCC Pin Connections



A0-A17	Address Inputs
Q0-Q7	Data Outputs
EN.1001.0	Chip Enable
G	Output Enable
PWW.100	Program
V _{PP}	Program Supply
V _{cc}	Supply Voltage
V _{SS}	Ground

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WWW.100Y.COM WWW.100Y.COM.TW Х Example: M27C2001 -80 X С 1 WWW.100Y.COM WWW.100Y.CO 100X.C Speed V_{CC} Tolerance Package Temperature Range Option -35 ⁽¹⁾ 0 to 70 °C 35 ns Х ± 5% F FDIP32W 1 Х Additional Burn-in -55 (1) –40 to 85 °C 55 ns blank ±10% L LCCC32W 6 W.10 TR Tape & Reel PLCC32 С -70 70 ns Packing TSOP32 -80 80 ns Ν 8 x 20mm -90 90 ns WWW.100Y.CON -10 100 ns 120 ns -12 -15 150 ns -20 200 ns -25 250 ns

W.100Y.COM.TW **ORDERING INFORMATION SCHEME**

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

100X.COM.TW 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. WWW.100Y.COM.TW WWW.100Y.COM.TW WWW.100Y.COM.T WWW.100

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