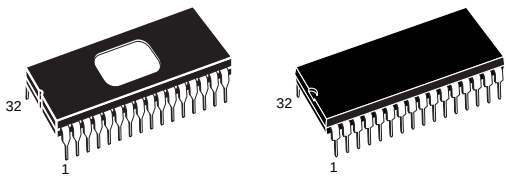
M27C801

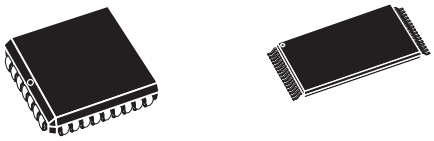
8 Mbit (1Mb x8) UV EPROM and OTP EPROM

DATA BRIEFING

- 5V ± 10% SUPPLY VOLTAGE in READ OPERATION
- FAST ACCESS TIME: 45ns
- LOW POWER CONSUMPTION:
  - Active Current 35mA at 5MHz
  - Standby Current 100µA
- PROGRAMMING VOLTAGE: 12.75V ± 0.25V
- PROGRAMMING TIME: 100µs/byte (typical)
- ELECTRONIC SIGNATURE
  - Manufacturer Code: 20h
  - Device Code: 42h



FDIP32W (F) PDIP32 (B)



PLCC32 (K) TSOP32 (N)
8 x 20mm

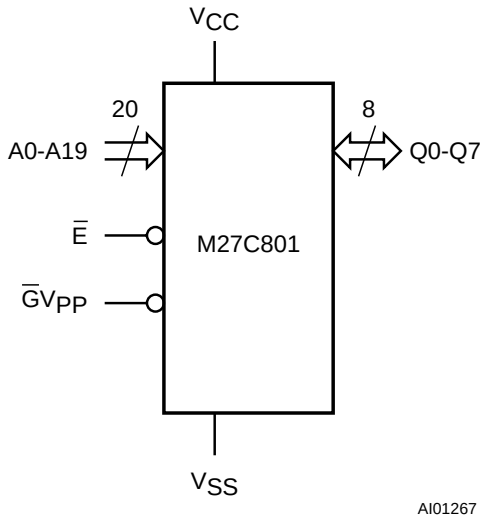
DESCRIPTION

The M27C801 is an 8 Mbit EPROM offered in the two ranges UV (ultra violet erase) and OTP (one time programmable). It is ideally suited for applications where fast turn-around and pattern experimentation are important requirements and is organized as 1,048,576 by 8 bits.

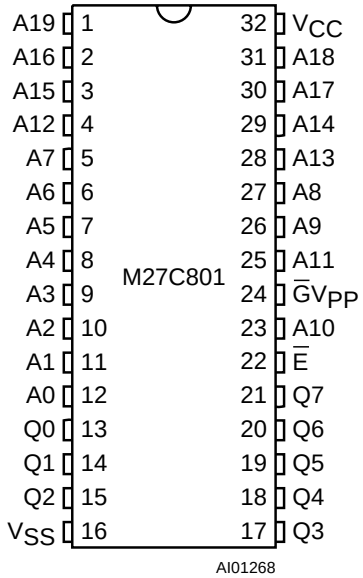
The FDIP32W (window ceramic frit-seal package) has transparent lid which allows the user to expose the chip to ultraviolet light to erase the bit pattern. A new pattern can then be written to the device by following the programming procedure.

For applications where the content is programmed only one time and erasure is not required, the M27C801 is offered in PDIP32, PLCC32 and TSOP32 (8 x 20 mm) packages.

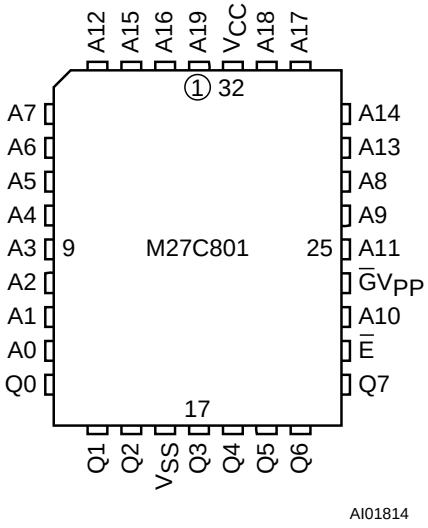
Logic Diagram



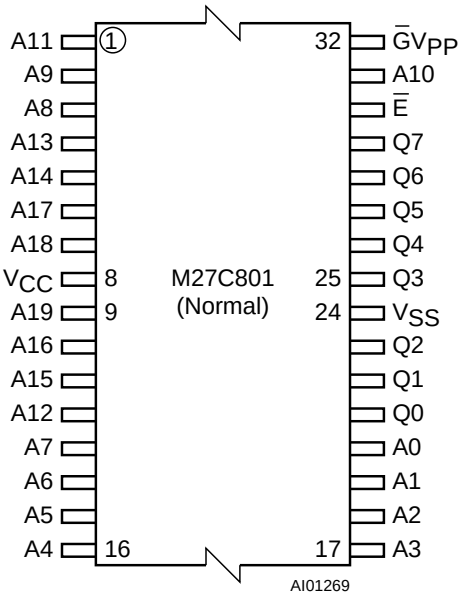
DIP Pin Connections



PLCC Pin Connections



TSOP Pin Connections



Signal Names

A0-A19	Address Inputs
Q0-Q7	Data Outputs
$\overline{E}$	Chip Enable
$\overline{G}V_{PP}$	Output Enable / Program Supply
V_{CC}	Supply Voltage
V_{SS}	Ground

ORDERING INFORMATION SCHEME

Example: M27C801 -45 K 1 TR

Speed		Package		Temperature Range		Option	
-45 (1)	45 ns	F	FDIP32W	1	0 to 70 °C	X	Additional Burn-in
-60	60 ns	B	PDIP32	6	–40 to 85 °C	TR	Tape & Reel Packing
-70	70 ns	K	PLCC32				
-80	80 ns	N	TSOP32 8 x 20mm				
-100	100 ns						
-120	120 ns						
-150	150 ns						

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

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