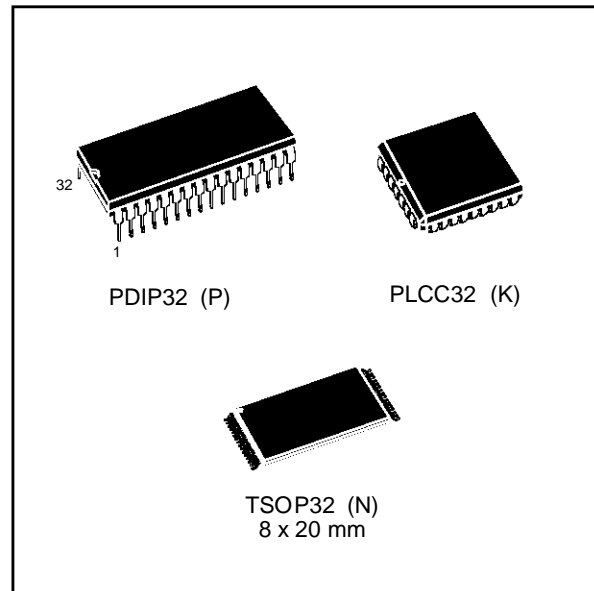


1 Megabit (128K x 8, Chip Erase) FLASH MEMORY

DATA BRIEFING

- FAST ACCESS TIME: 70ns
- LOW POWER CONSUMPTION
 - Standby Current: 100µA Max
- 10,000 ERASE/PROGRAM CYCLES
- 12V PROGRAMMING VOLTAGE
- TYPICAL BYTE PROGRAMING TIME 10µs (PRESTO F ALGORITHM)
- ELECTRICAL CHIP ERASE in 1s RANGE
- INTEGRATED ERASE/PROGRAM-STOP TIMER
- OTP COMPATIBLE PACKAGES and PINOUTS
- EXTENDED TEMPERATURE RANGES



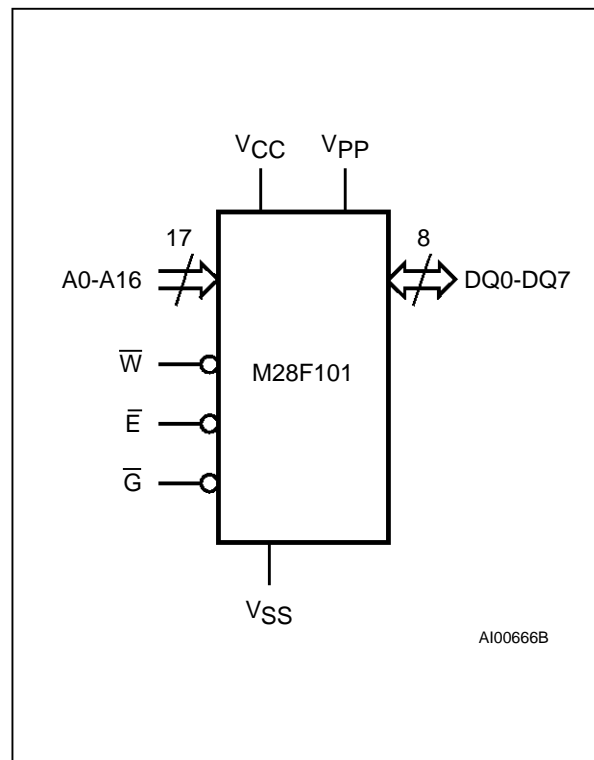
DESCRIPTION

The M28F101 FLASH Memory is a non-volatile memory which may be erased electrically at the chip level and programmed byte-by-byte. It is organised as 128K bytes of 8 bits. It uses a command register architecture to select the operating modes and thus provides a simple microprocessor interface. The M28F101 FLASH Memory is suitable for applications where the memory has to be reprogrammed in the equipment. The access time of 100ns makes the device suitable for use in high speed microprocessor systems.

Signal Names

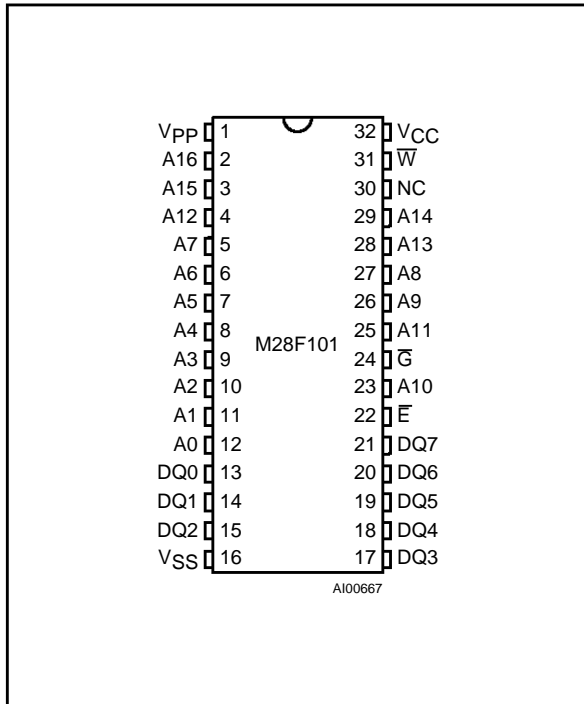
A0 - A16	Address Inputs
DQ0 - DQ7	Data Inputs / Outputs
\bar{E}	Chip Enable
\bar{G}	Output Enable
\bar{W}	Write Enable
V _{PP}	Program Supply
V _{CC}	Supply Voltage
V _{SS}	Ground

Logic Diagram



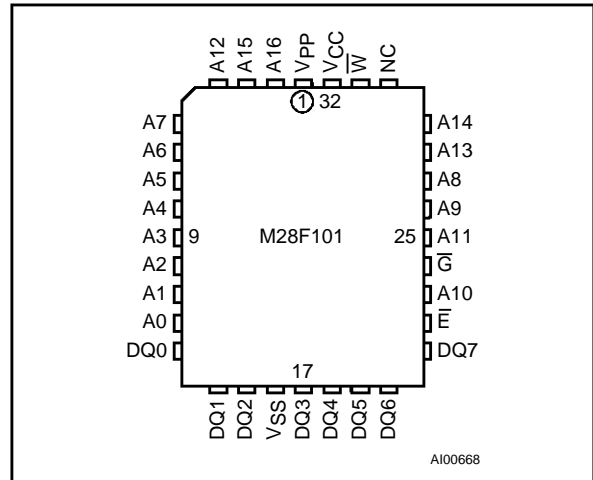
M28F101

DIP Pin Connections



Warning: NC = Not Connected

LCC Pin Connections



Warning: NC = Not Connected

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: M28F101 -70 X N 1 TR

Operating Voltage

F 5V

Speed

- 70 70ns
- 90 90ns
- 100 100ns
- 120 120ns
- 150 150ns
- 200 200ns

Power Supplies

- blank $V_{CC} \pm 10\%$
- X $V_{CC} \pm 5\%$

Package

- P PDIP32
- K PLCC32
- N TSOP32
8 x 20mm

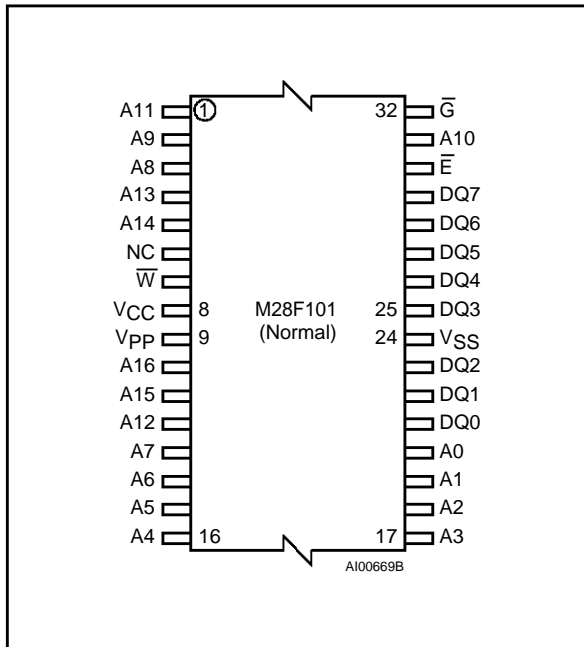
Temp. Range

- 1 0 to 70 °C
- 3 -40 to 125 °C
- 6 -40 to 85 °C

Option

- R Reverse Pinout
- TR Tape & Reel Packing

TSOP Pin Connections



Warning: NC = Not Connected