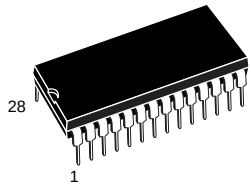
SGS-THOMSON MICROELECTRONICS

M28C17

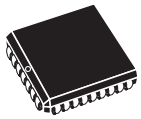
16K (2K x 8) PARALLEL EEPROM with SOFTWARE DATA PROTECTION

DATA BRIEFING

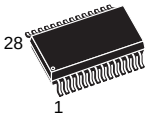
- FAST ACCESS TIME: 90ns
- SINGLE 5V ± 10% SUPPLY VOLTAGE
- LOW POWER CONSUMPTION
- FAST WRITE CYCLE:
  - 64 Bytes Page Write Operation
  - Byte or Page Write Cycle: 3ms Max
- ENHANCED END OF WRITE DETECTION:
  - Ready/Busy Open Drain Output
  - Data Polling
  - Toggle Bit
- PAGE LOAD TIMER STATUS BIT
- HIGH RELIABILITY SINGLE POLYSILICON, CMOS TECHNOLOGY:
  - Endurance >100,000 Erase/Write Cycles
  - Data Retention >40 Years
- JEDEC APPROVED BYTEWIDE PIN OUT
- SOFTWARE DATA PROTECTION



PDIP28 (P)



PLCC32 (K)



SO28 (MS)
300 mils

DESCRIPTION

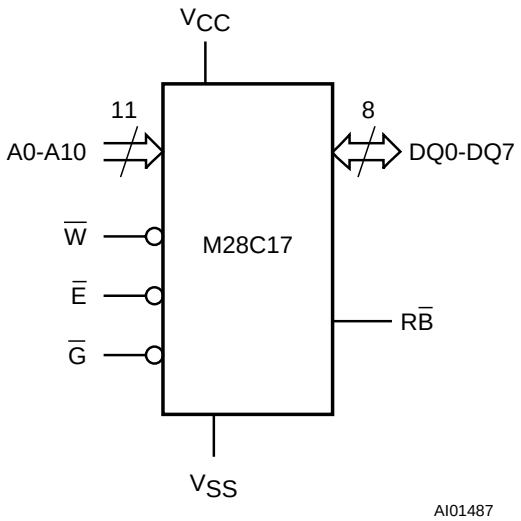
The M28C17 is a 2K x 8 low power Parallel EEPROM fabricated with SGS-THOMSON proprietary single polysilicon CMOS technology. The device offers fast access time with low power dissipation and requires a 5V power supply.

The M28C17 offers the same features than the M28C16, in addition to the Ready/Busy pin.

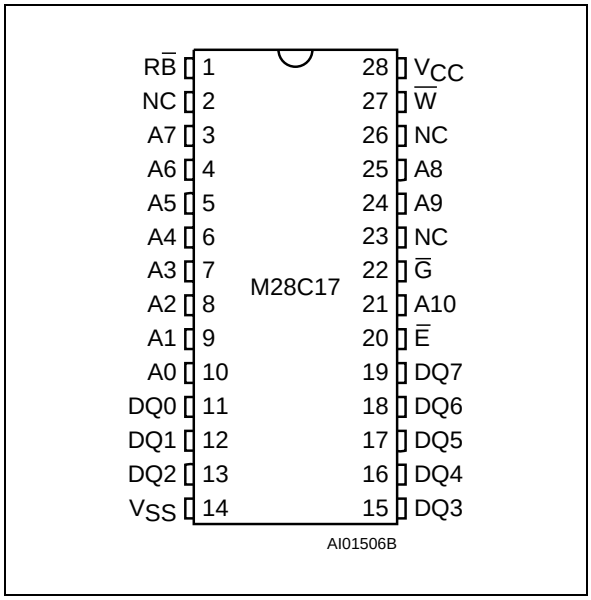
Signal Names

A0 - A10	Address Input
DQ0 - DQ7	Data Input / Output
$\overline{W}$	Write Enable
$\overline{E}$	Chip Enable
$\overline{G}$	Output Enable
$R\overline{B}$	Ready / Busy
V_{CC}	Supply Voltage
V_{SS}	Ground

Logic Diagram

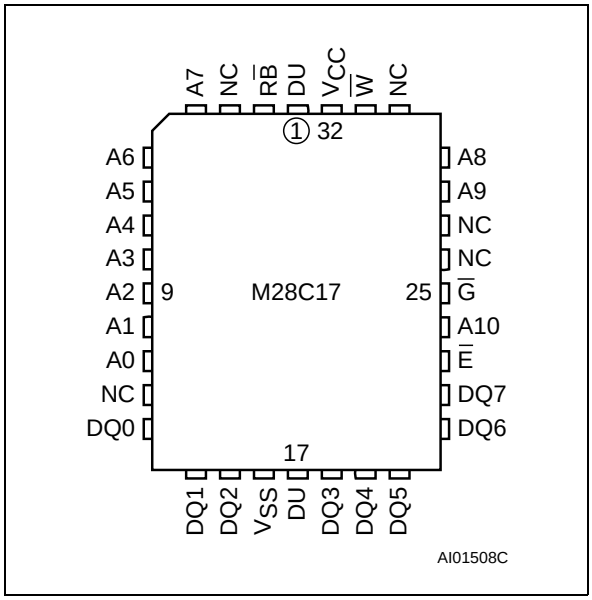


DIP Pin Connections



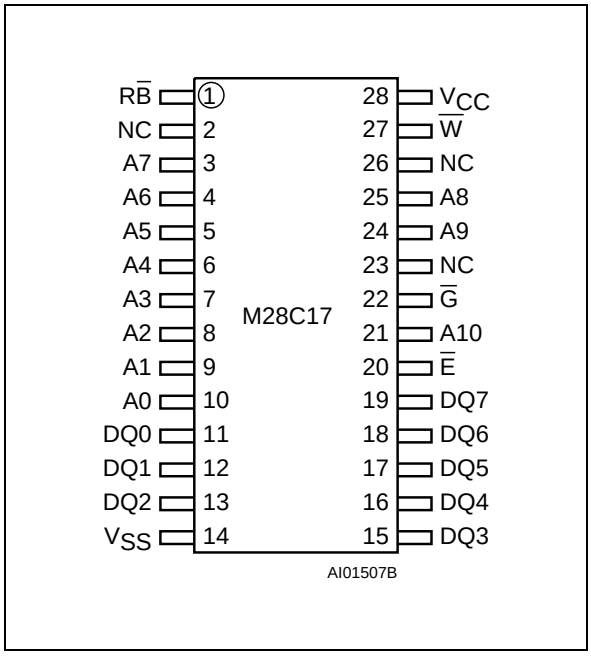
Warning: NC = Not Connected.

LCC Pin Connections



Warning: NC = Not Connected, DU = Don't Use.

SO Pin Connections



Warning: NC = Not Connected.

Ordering Information Scheme

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

Example: M28C17 -90 K 1 T

Speed

-90	90ns
-120	120ns
-150	150ns

Package

P	PDIP28
K	PLCC32
MS	SO28 300mils

Temp. Range

1	0 to 70 °C
6	–40 to 85 °C

Option

T	Tape & Reel Packing

Note: Devices are shipped from the factory with the memory content set at all "1's" (FFh).