

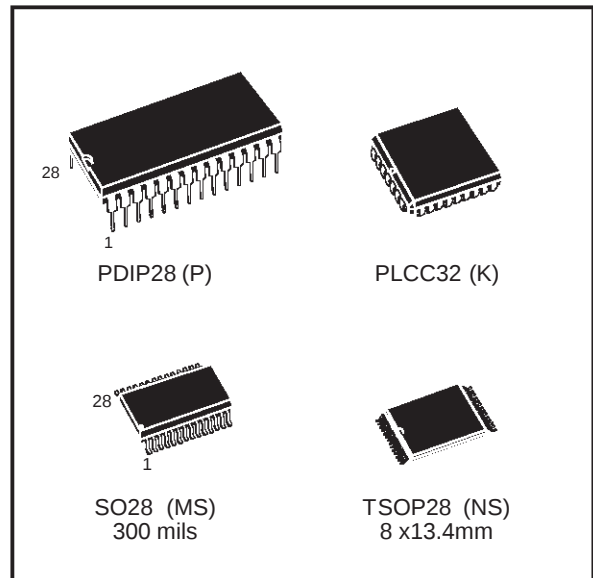


M28C16A M28C17A

16 Kbit (2Kb x8) Parallel EEPROM

DATA BRIEFING

- FAST ACCESS TIME:
 - 150ns at 5V
 - 250ns at 3V
- SINGLE SUPPLY VOLTAGE:
 - 5V $\pm$ 10% for M28C16A and M28C17A
 - 2.7V to 3.6V for M28C16-xxW
- LOW POWER CONSUMPTION
- FAST WRITE CYCLE
 - 32 Bytes Page Write Operation
 - Byte or Page Write Cycle: 5ms
- 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



DESCRIPTION

The M28C16A and M28C17A are 2K x 8 low power Parallel EEPROM fabricated with STMicroelectronics proprietary single polysilicon CMOS technology. The device offers fast access time with low power dissipation and requires a 5V or 3V power supply.

Signal Names

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

Logic Diagram

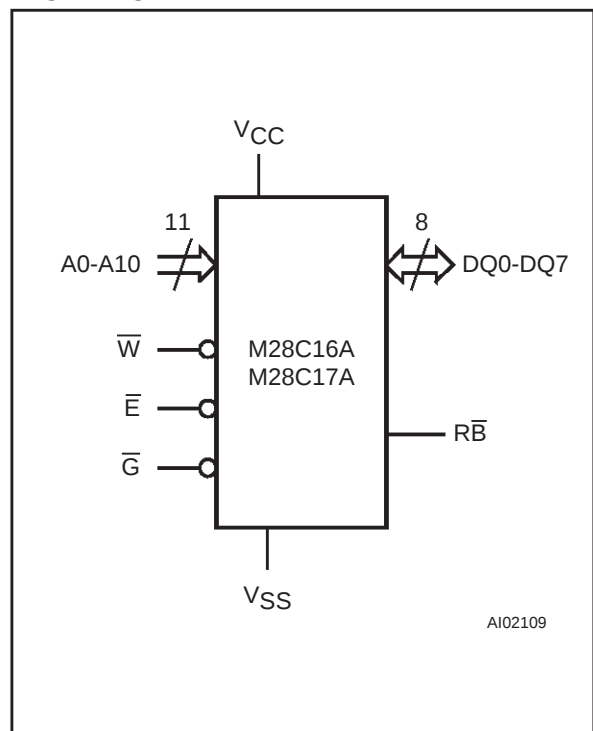
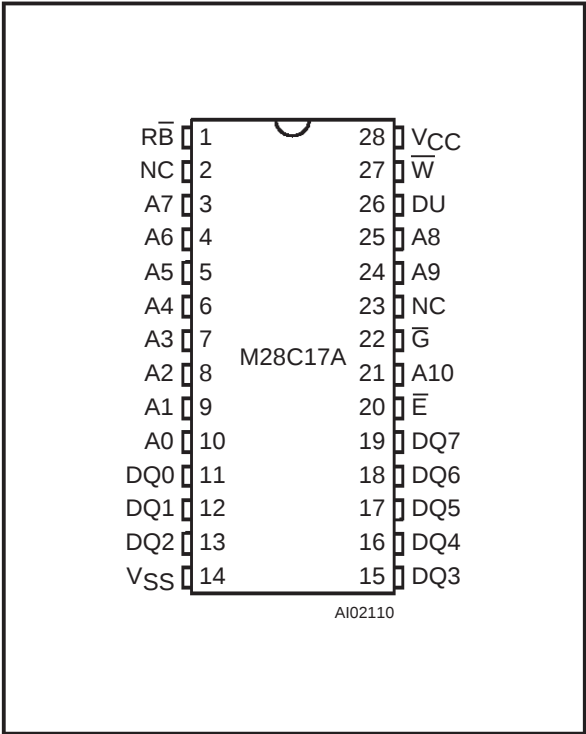
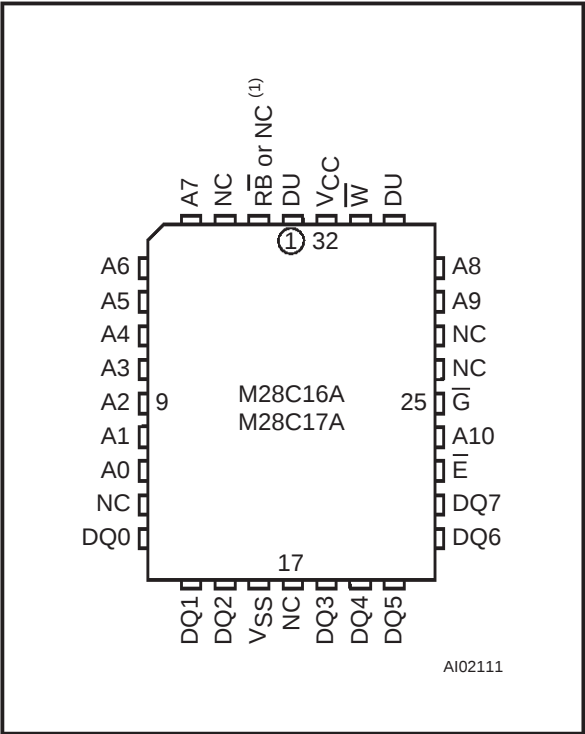


Figure 2A. DIP Pin Connections



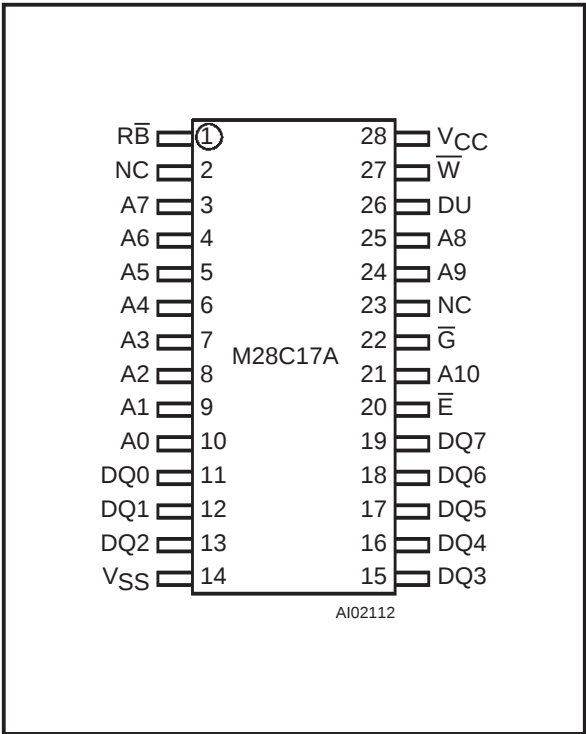
Warning: NC = Not Connected, DU = Don't Use.

Figure 2B. LCC Pin Connections



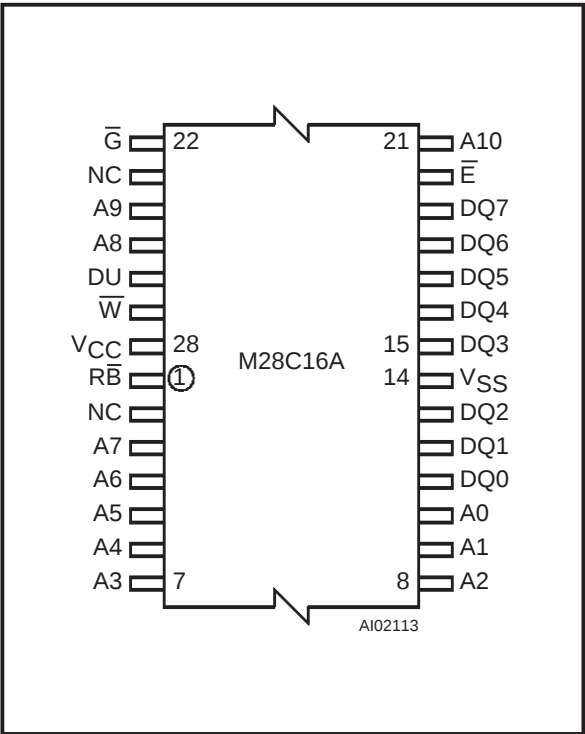
Warning: NC = Not Connected, DU = Don't Use.
Note: 1. Pin 2 is either RB for M28C17A or NC for M28C16A.

Figure 2C. SO Pin Connections



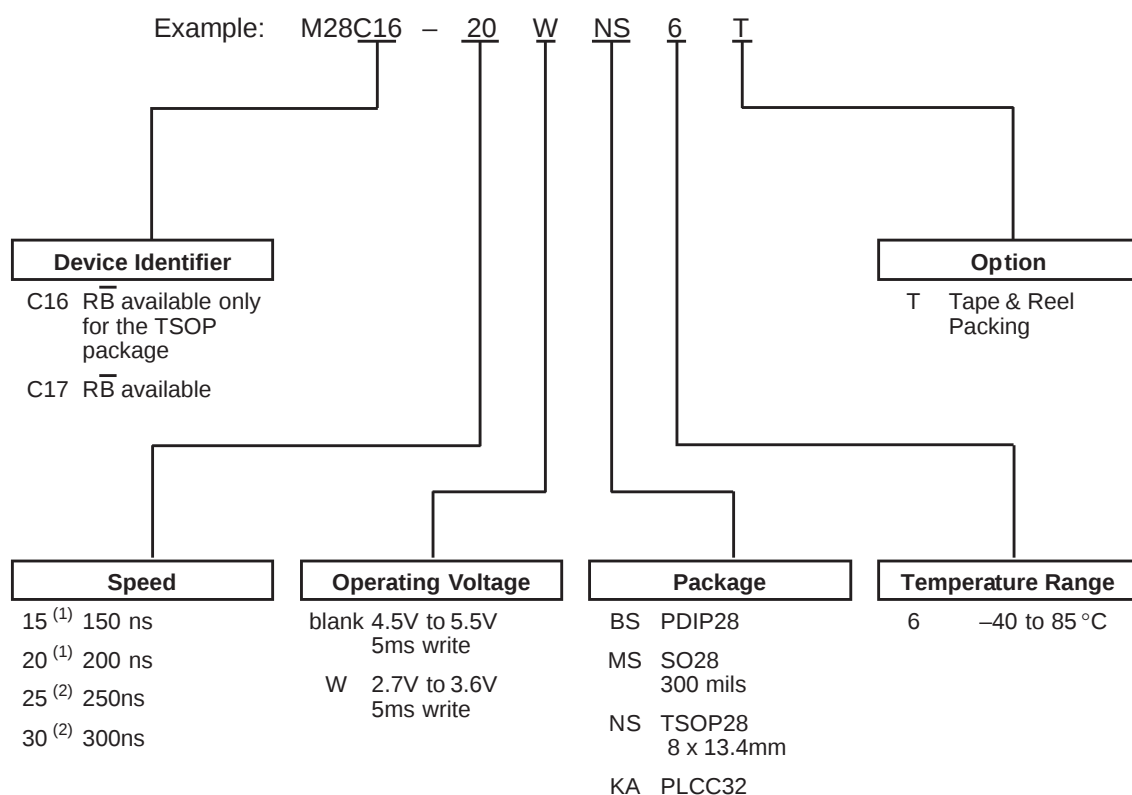
Warning: NC = Not Connected, DU = Don't Use.

Figure 2D. TSOP Pin Connections



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

ORDERING INFORMATION SCHEME



Notes: 1. Available for M28C16A and M28C17A only.
2. Available for "W" Operating Voltage only.

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

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