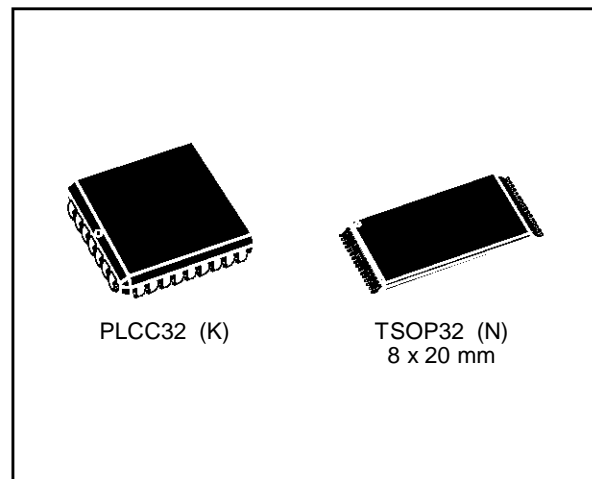


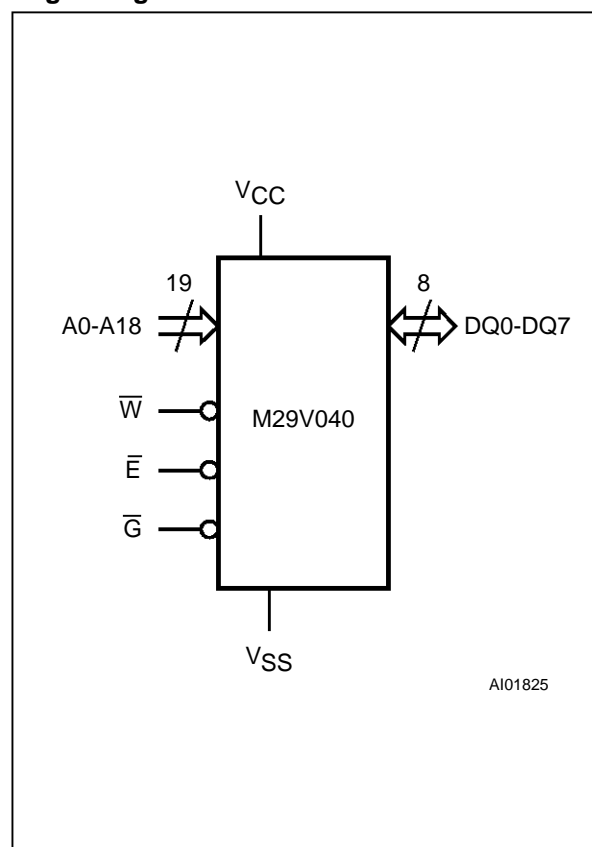
LOW VOLTAGE SINGLE SUPPLY 4 Megabit (512K x 8, Sector Erase) FLASH MEMORY

DATA BRIEFING

- FAST ACCESS TIME: 120ns
- 3.3V ± 0.3V SUPPLY VOLTAGE for PROGRAM and ERASE OPERATIONS
- 3.3V ± 0.3V SUPPLY VOLTAGE in READ OPERATIONS
- BYTE PROGRAMMING TIME: 15µs typical
- ERASE TIME
 - Sector: 1.0 sec typical
 - Bulk: 2.5 sec typical
- PROGRAM/ERASE CONTROLLER (P/E.C.)
 - Program Byte-by-Byte
 - Data Polling and Toggle Protocol for P/E.C. Status
- MEMORY ERASE in SECTORS
 - 8 Sectors of 64K Bytes each
 - Sector Protection
 - Multisector Erase
- ERASE SUSPEND and RESUME MODES
- 100,000 PROGRAM/ERASE CYCLES per SECTOR
- LOW POWER CONSUMPTION
 - 25µA typical current in Standby
 - 5mA typical current for Read
 - Automatic CMOS Standby Mode



Logic Diagram

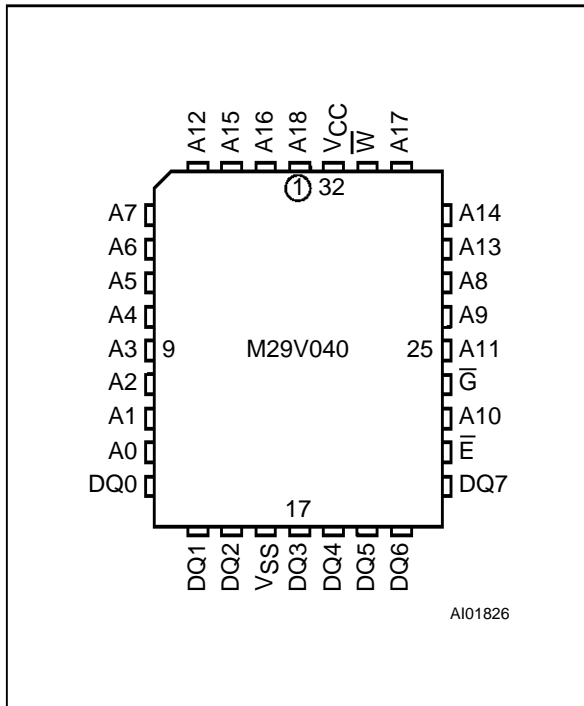


DESCRIPTION

The M29V040 is a non-volatile memory that may be erased electrically at the sector level, and programmed Byte-by-Byte.

The interface is directly compatible with most microprocessors. PLCC32 and TSOP32 (8 x 20mm) packages are available. Reverse pin out is available for the TSOP package upon request.

LCC Pin Connections



Signal Names

A0-A18	Address Inputs
DQ0-DQ7	Data Input / Outputs
\bar{E}	Chip Enable
\bar{G}	Output Enable
\bar{W}	Write Enable
V _{CC}	Supply Voltage
V _{SS}	Ground

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: M29V040 -120 N 1 TR

Operating Voltage

V 3.3V ± 0.3V

Speed

- 120 120ns
- 150 150ns
- 200 200ns

Package

- K PLCC32
- N TSOP32
8 x 20mm

Temp. Range

- 1 0 to 70 °C
- 5 -20 to 85 °C
- 6 -40 to 85 °C

Option

- R Reverse Pinout
- TR Tape & Reel Packing

TSOP Pin Connections

