Advance Information

Am27C4096

262,144 x 16-Bit CMOS UV EPROM

Advanced Micro Devices

DISTINCTIVE CHARACTERISTICS

- Fast access time — 120 ns
- Low power consumption:
  - 100 µA maximum standby current
- Programming voltage: 12.5 V
- Single +5-V power supply
- JEDEC-approved pinout
- ±10% power supply tolerance available
- Flashrite™ programming
- Latch-up protected to 100 mA from −1 V to V_{CC} +1 V

GENERAL DESCRIPTION

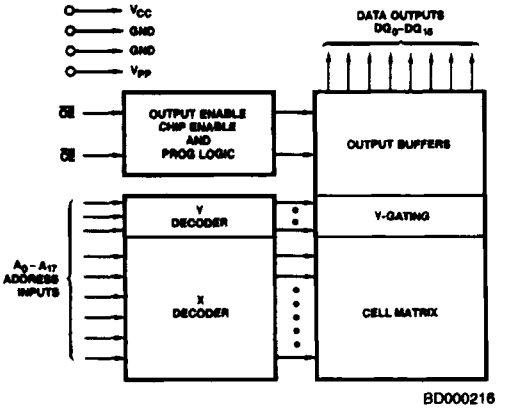
The Am27C4096 is a 4 megabit, ultraviolet erasable programmable read-only memory. It is organized as 262,144 words by 8 bits per word, operates from a single +5-V supply, has a static standby mode, and features fast single address location programming.

Typically, any byte can be accessed in less than 120 ns, allowing operation with high-performance microprocessors with reduced WAIT states. The Am27C4096 offers separate Output Enable ($\overline{OE}$) and Chip Enable ($\overline{CE}$) controls, thus eliminating bus contention in a multiple bus microprocessor system.

AMD's CMOS process technology provides high speed, low power, and high noise immunity. Typical power consumption is only 100 mW in active mode, and 500 µW in standby mode.

All signals are TTL levels, including programming signals. Bit locations may be programmed singly, in blocks, or at random. The Am27C4096 supports both AMD's interactive programming algorithm (1-ms pulses) and Flashrite algorithm (0.1 ms pulses).

BLOCK DIAGRAM



BD000216

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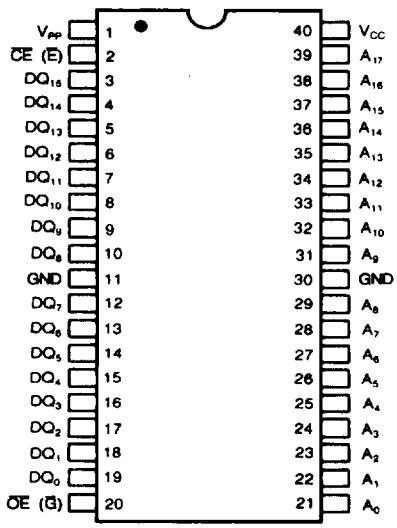
Publication # 11408 Rev. A Amendment /0
Issue Date: November 1988

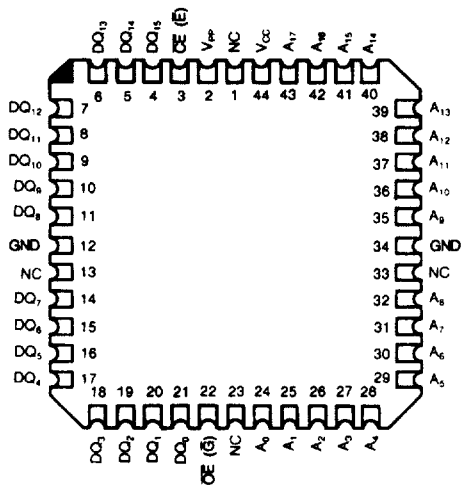
CONNECTION DIAGRAMS
Top View

DIP



CD009302

LCC



CD009316

Notes: 1. Pin 1 is marked for orientation.

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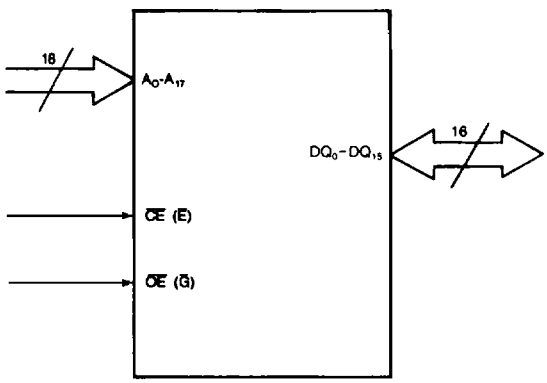
LOGIC SYMBOL



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VCC = 5.0-V Power Supply
GND = 0-V Power Supply
VPP = 12.5 V Power Supply