

NMC2564 64k-Bit (8k x 8) UV Erasable PROM

General Description

The NMC2564 is a 65,536-bit EPROM operating from a single 5V power supply. This device is an ultraviolet erasable, electrically programmable, read only memory fabricated using National's high speed, low power, silicon gate technology.

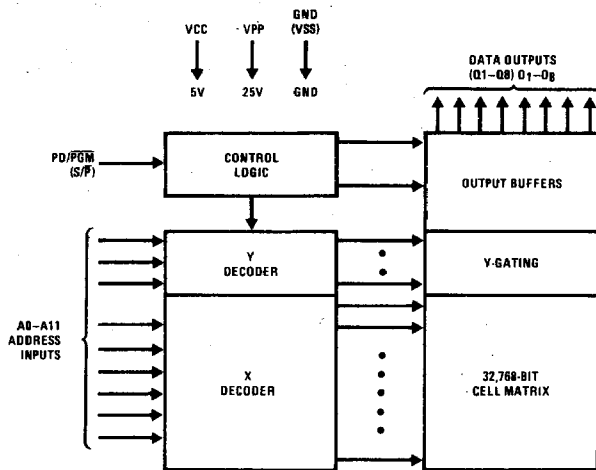
This device is deselected when pin 20 is high and automatically placed in the standby mode. This mode provides an 85% reduction in power with no increase in access time.

Bits may be programmed at random, in sequence or singly. Typical erasure time is 20 minutes using a 12 mW/cm² ultraviolet lamp.

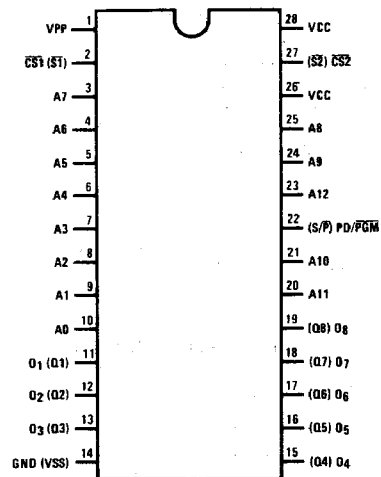
Features

- Single 5V power supply
- 450 ns max access time
- Low power:
 - Active — 200 mA max
 - Standby — 30 mA max
- Fully static
- TRI-STATE® output
- All I/O pins TTL compatible
- Pin compatible with the 2516 and 2532 EPROMs
- Separate chip selects for multiple bus systems
- Single location programming

Block and Connection Diagrams*



Dual-In-Line Package



TOP VIEW

Modes

Mode	Pin Name/Number					
	VCC 26, 28	VPP 1	PD/PGM (S/P) 22	CS1 (S1) 2	CS2 (S2) 27	Outputs (Q1-Q8) 11-13, 15-19
Read	5	5	VIL	VIL	VIL	DOUT
Deselect	5	5	VIL	VIH	X	Hi-Z
Deselect	5	5	VIL	X	VIH	Hi-Z
Standby	5	5	VIH	X	X	Hi-Z
Program Inhibit	5	25	VIH	X	X	DIN
Program Inhibit	5	25	X	VIH	X	DIN
Program Inhibit	5	25	X	X	VIH	DIN
Program	5	25	Pulsed VIH to VIL	VIL	VIL	DIN

Pin Names

- PD/PGM (S/P) Power Down (Chip Select)
- A0-A12 Address Inputs
- O1-Q8 (Q1-Q8) Data Outputs
- VPP Program Power (+ 25V)
- VCC Power (+ 5V)
- GND (VSS) Ground

X = don't care

* Symbols in parentheses are industry standard