

NEW PRODUCT

HN29C101 Series

131072-Word × 8-Bit CMOS Flash Electrical Erasable and Programmable ROM

Product Preview



Rev. 0.1
Oct. 6, 1989

The Hitachi HN29C101 is a 131072-word x 8-bit CMOS flash electrical erasable and programmable ROM, realizing on-board programming. It programs or erases data only on on-board power supply (V_{CC}/V_{PP}). The logic level of V_H (12 V) is unnecessary for address pins and control pins and command inputs are unnecessary because it provides an erase control pin ($\overline{EE}$). When erasing, its control pins, address bus and data bus become free, by control latch. It also provides the status polling function to inform the erase completion to CPU.

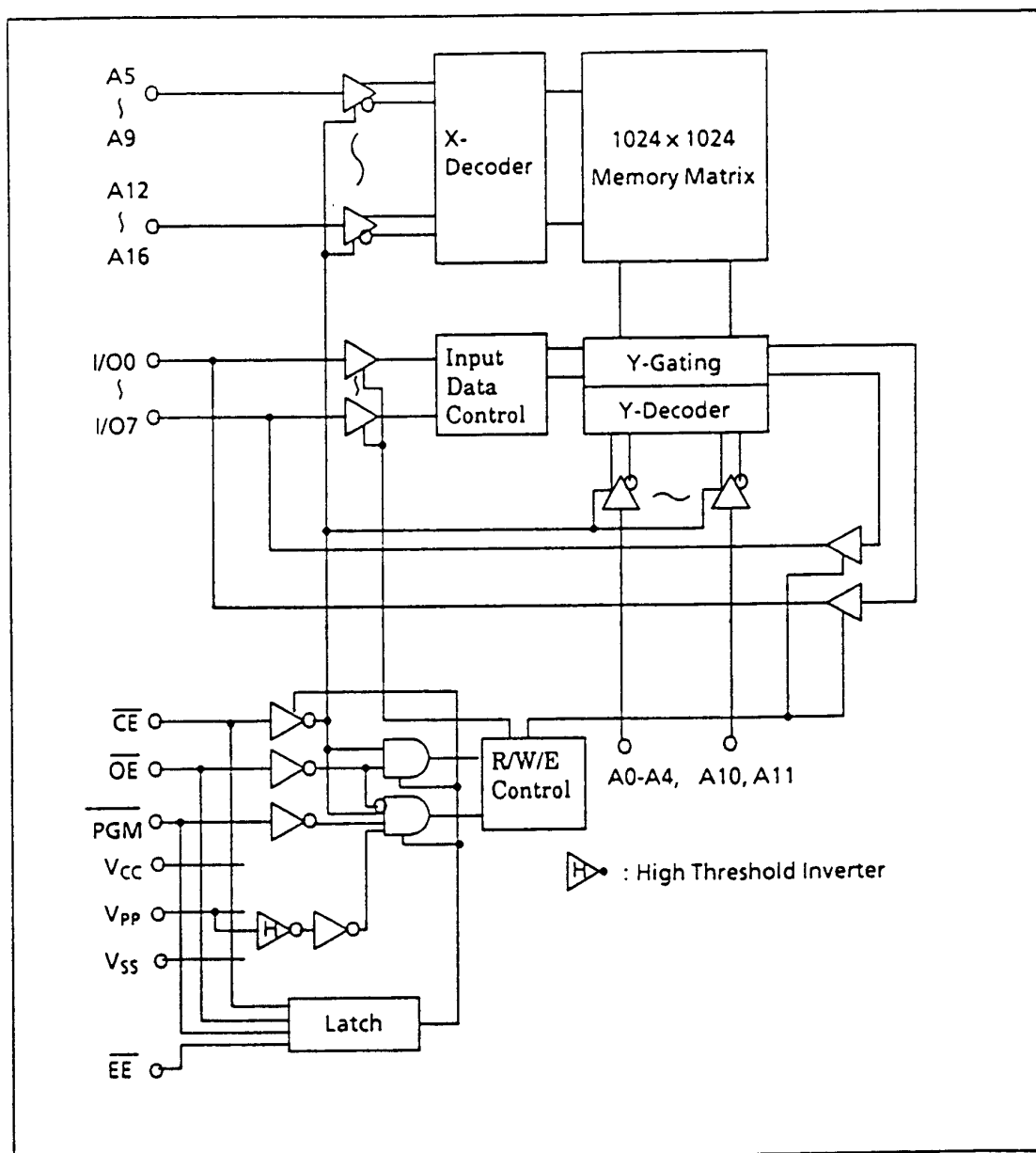
Features

- On-board power supply (V_{CC}/V_{PP}) ... $V_{CC} = 5\text{ V} \pm 10\%$
 $V_{PP} = V_{CC} - 1\text{ V to } V_{CC}$ (Read)
 $V_{PP} = 12.0\text{ V} \pm 0.4\text{ V}$ (Erase/Program)
- High speed Access time 120ns / 150ns / 200ns (max)
- Single high speed programming ... Byte program
 Program time: (200 μ s) One shot pulse
- On-board erase function Chip erase
 Erase time: (2s typ)
 Address, data, control latch function
 Status polling function
- Low power dissipation $I_{CC} = 30\text{ mA typ}$ (Read)
 $I_{CC} = 20\mu\text{A max}$ (Standby)
 $I_{PP} = 30\text{ mA typ}$ (Erase/Program)
 $I_{PP} = 20\mu\text{A max}$ (Read/Standby)
- Erasing times More than 100 times
- Pin arrangement 32-pin JEDEC standard
- Package 32-pin Plastic DIP
 32-pin TSOP

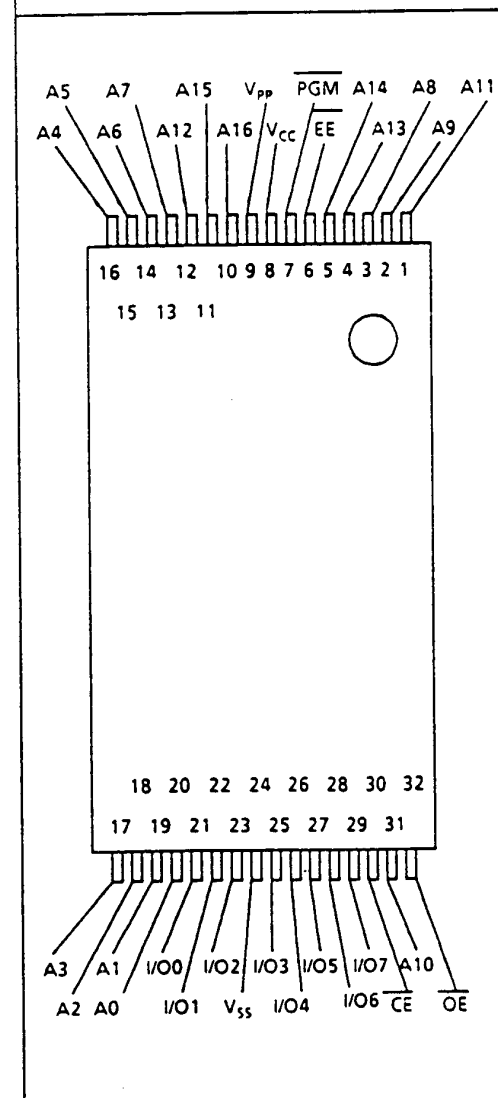
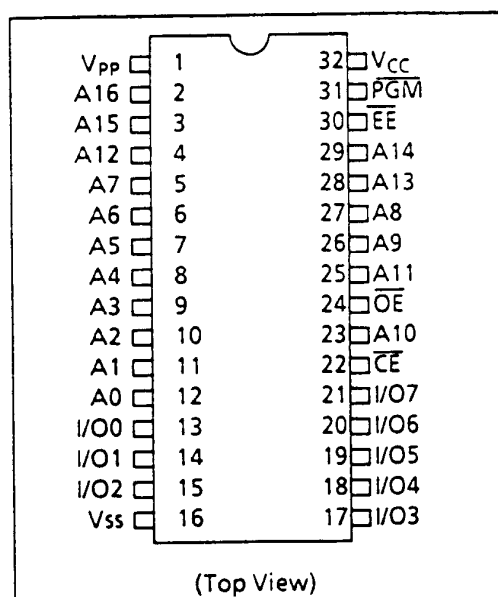


Product Preview : This document contains information on a product under development. Hitachi reserves the right to change or discontinue without notice.

Block Diagram



Pin Arrangement



Pin Description

Pin Name	Function
A0-A16	Address
I/O0-I/O7	Input/output
$\overline{CE}$	Chip enable
$\overline{OE}$	Output enable
$\overline{PGM}$	Programming enable
$\overline{EE}$	Erase enable
V_{CC}	Power supply
V_{PP}	Programming power supply
V_{SS}	Ground

Ordering Information

Type No.	Access Time	Package
HN29C101P-12	120ns	32-pin Plastic DIP (DP-32)
HN29C101P-15	150ns	
HN29C101P-20	200ns	
HN29C101TS-12	120ns	32-pin Thin Small Outline Package (TFP-32DA)
HN29C101TS-15	150ns	
HN29C101TS-20	200ns	