HN25084S, HN25085S

-Preliminary-

2048-word imes 4-bit Programmable Read Only Memories

The HITACHI HN25084S and HN25085S are high speed electrically programmable, fully decoded TTL Bipolar 8192 bit read only memories organized as 2048 words by 4 bits with on-chip address decoding and one chip enable input. The HN25084S and HN25085S are fabricated with logic level "zeros" (low); logic level "ones" (high) can be electrically programmed in the selected bit locations. The same address inputs are used for both programming and reading.

■ FEATURES

- 2048 words x 4 bits organization (fully decoded)
- DTL/TTL compatible inputs and outputs
- Fast read access time: 25 ns typ. (50 ns max)
- Medium power consumption: 550 mW typ.
- One chip enable input for memory expansion
- Open collector outputs (HN25084S)/Three-state outputs (HN25085S)
- Standard cerdip 18-pin dual in-line package

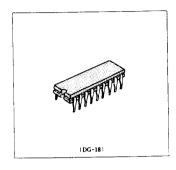
■ OPERATION

● Programming

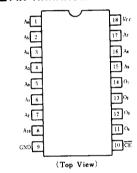
A logic one can be permanently programmed into a selected bit location by using programming equipment. First, the desired word is selected by the eleven address inputs in TTL level. The device is disabled by bringing \overline{CE} to a logic "one". Then a train of high current programming pulses is applied to the desired output. After the sensed voltage indicates that the selected bit is in the logic "one" state, an additional pulse train is applied, then is stopped.

Reading

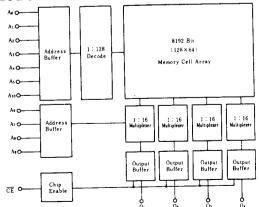
To read the memory the device is enabled by bringing CE to a logic "zero". The outputs then correspond to the data programmed in the selected word.



PIN ARRANGEMENT



LOGIC DIAGRAM



Note) The specifications of this device are subject to change without notice. Please contact your nearest Hitachi's Sales Dept. regarding specifications.