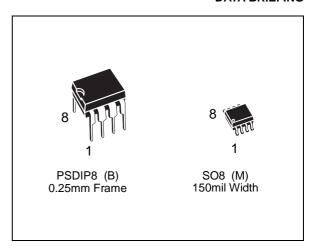


16Kb (x8) SERIAL EEPROM

DATA BRIEFING

- 1 MILLION ERASE/WRITE CYCLES with OVER 40 YEARS DATA RETENTION
- SINGLE SUPPLY VOLTAGE:
 - 4.5V to 5.5V for ST24164 version
 - 2.5V to 5.5V for ST25164 version
- HARDWARE WRITE CONTROL PIN
- TWO WIRE SERIAL INTERFACE
- PAGE WRITE (up to 16 BYTES)
- BYTE, RANDOM and SEQUENTIAL READ MODES
- SELF TIMED PROGRAMMING CYCLE
- AUTOMATIC ADDRESS INCREMENTING
- ENHANCED ESD/LATCH-UP PERFORMANCES



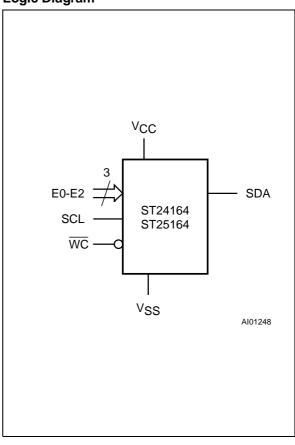
DESCRIPTION

The ST24/25164 are 16K bit electrically erasable programmable memories (EEPROM), organized as 2048 x 8 bits. They are manufactured in SGS-THOMSON's Hi-Endurance Advanced CMOS technology which guarantees an endurance of one million erase/write cycles with a data retention of over 40 years. The memories operate with a power supply value as low as 2.5V.

Signal Names

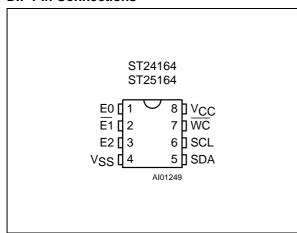
E0-E2	Chip Enable Inputs
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
V _{CC}	Supply Voltage
V _{SS}	Ground

Logic Diagram

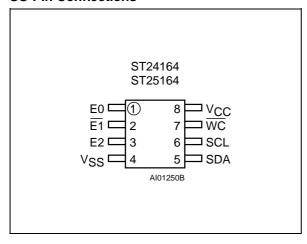


B24164/608 1/2

DIP Pin Connections

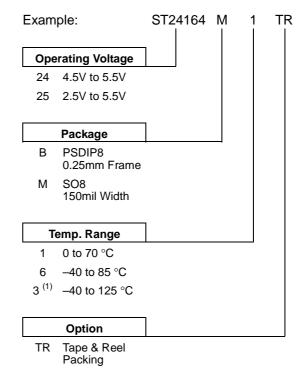


SO Pin Connections



Ordering Information Scheme

For a list of available options or for further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.



Notes: 1. Temperature range on special request only.

Devices are shipped from the factory with the memory content set at all "1's" (FFh).

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