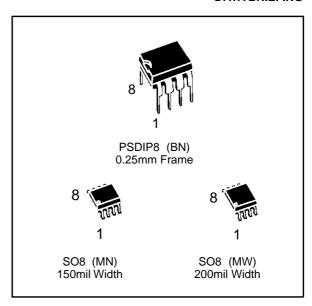


M24C64

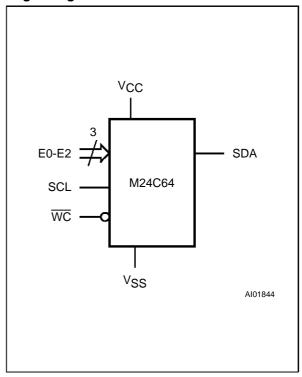
SERIAL EXTENDED ADDRESSING COMPATIBLE WITH I²C BUS 64K (8K x 8) EEPROM

DATA BRIEFING

- COMPATIBLE with I²C EXTENDED ADDRESSING
- TWO WIRE SERIAL INTERFACE, SUPPORTS 400kHz PROTOCOL
- 100,000 ERASE/WRITE CYCLES, OVER the FULL SUPPLY VOLTAGE RANGE
- 40 YEARS DATA RETENTION
- SINGLE SUPPLY VOLTAGE
 - 4.5V to 5.5V for M24C64 version
 - 1.8V to 5.5V for M24C64-R version
- WRITE CONTROL FEATURE
- BYTE and PAGE WRITE (up to 32 BYTES)
- BYTE, RANDOM and SEQUENTIAL READ MODES
- SELF TIMED PROGRAMING CYCLE
- AUTOMATIC ADDRESS INCREMENTING
- ENHANCED ESD/LATCH UP PERFORMANCES



Logic Diagram



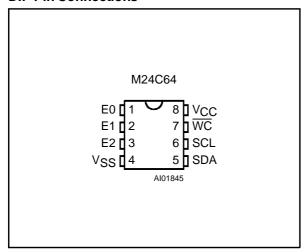
DESCRIPTION

The M24C64 is a 64K bit electrically erasable programmable memory (EEPROM), organized as 8 blocks of 1024 x 8 bits. The M24C64-R operates with a power supply value as low as 1.8V. Both Plastic Dual-in-Line and Plastic Small Outline packages are available.

Each memory is compatible with the I²C extended addressing standard, two wire serial interface which uses a bi-directional data bus and serial clock. The M24C64 carries a built-in 4 bit, unique device identification code (1010) corresponding to the I²C bus definition. The M24C64 behaves as slave devices in the I²C protocol with all memory operations synchronized by the serial clock. Read and write operations are initiated by a START condition generated by the bus master. The START condition is followed by a stream of 4 bits (identification code 1010), 3 bit Chip Enable input to form a 7 bit Device Select, plus one read/write bit and terminated by an acknowledge bit.

B24C64/606 1/2

DIP Pin Connections



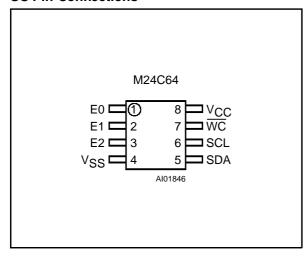
Signal Names

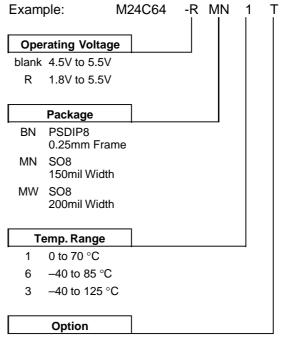
E0 - E2	Chip Enable Inputs
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
Vcc	Supply Voltage
V _{SS}	Ground

Ordering Information SchemeFor a list of available options refer to the current Memory Shortform catalogue.

For further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.

SO Pin Connections





Tape & Reel Packing