

M34W02

2Kbit Serial EEPROM with Software Data Protection

DATA BRIEFING

- TWO WIRE I²C SERIAL INTERFACE SUPPORTS 400kHz PROTOCOL
- 1 MILLION ERASE/WRITE CYCLES
- 40 YEARS DATA RETENTION
- SINGLE SUPPLY VOLTAGE:
 - 4.5V to 5.5V for M34W02
 - 2.5V to 5.5V for M34W02-W
 - 1.8V to 5.5V for M34W02-R
- SOFTWARE DATA PROTECTION
- BYTE and PAGE WRITE (up to 16 BYTES)
- BYTE, RANDOM and SEQUENTIAL READ MODES
- SELF TIMED PROGRAMMING CYCLE
- AUTOMATIC ADDRESS INCREMENTING
- ENHANCED ESD and LATCH-UP PERFORMANCES

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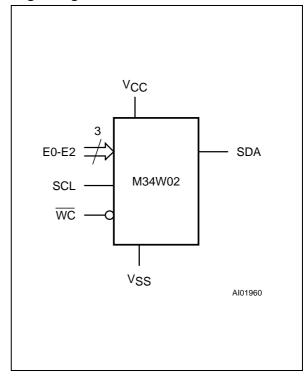
DESCRIPTION

The M34W02 is a 2K bit electrically erasable programmable memory (EEPROM), organized as 256 x 8-bits which includes a Software Data Protection feature. This allows Write Protection of a block of memory with a selectable size and location. By sending the device a specific sequence, it is possible to protect the top or the bottom locations of the memory area. The protection is activated when the $\overline{\text{WC}}$ pin is held high.

The M34W02 is manufactured in SGS-THOM-SON's Hi-Endurance Advanced CMOS technology. The memories operate with a power supply value as low as 1.8V for the M34W02-R.

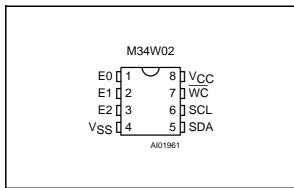
Plastic Dual In-line, Plastic Small Outline and Thin Shrink Small Outline packages are available.

Logic Diagram

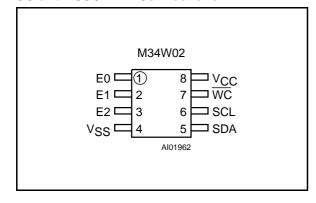


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DIP Pin Connections



SO and TSSOP Pin Connections

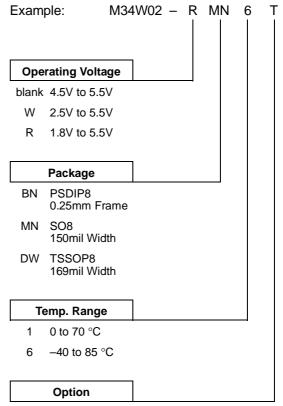


Signal Names

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 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.



T Tape & Reel Packing

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

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