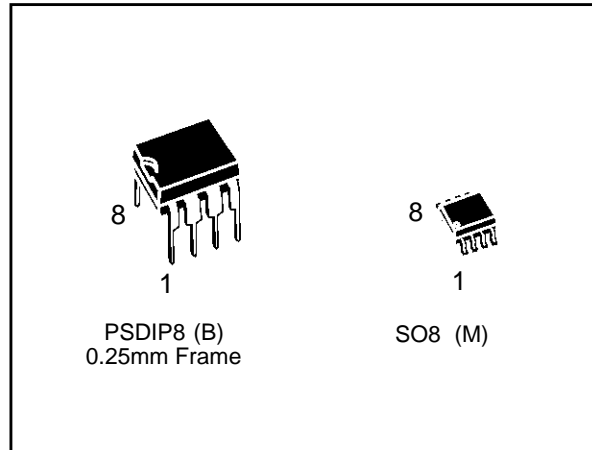


**SERIAL ACCESS SPI BUS 4K (512 x 8) EEPROM**

**DATA BRIEFING**

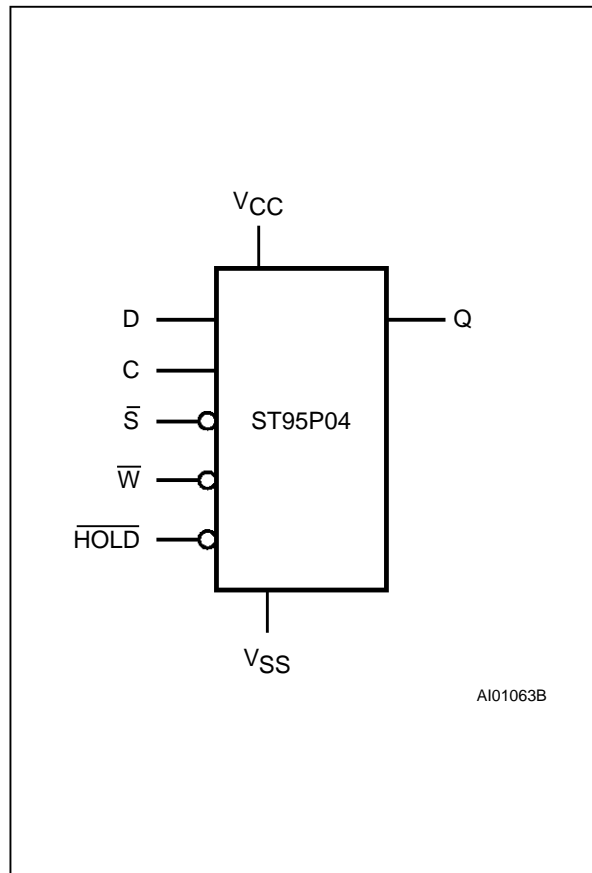
- 1 MILLION ERASE/WRITE CYCLES
- 40 YEARS DATA RETENTION
- SINGLE 3V to 5.5V SUPPLY VOLTAGE
- SPI BUS COMPATIBLE SERIAL INTERFACE
- 1 MHz CLOCK RATE MAX
- BLOCK WRITE PROTECTION
- STATUS REGISTER
- 16 BYTE PAGE MODE
- WRITE PROTECT
- SELF-TIMED PROGRAMMING CYCLE
- E.S.D.PROTECTION GREATER than 4000V
- **The ST95P04 will be replaced shortly by the updated version ST95040**



**DESCRIPTION**

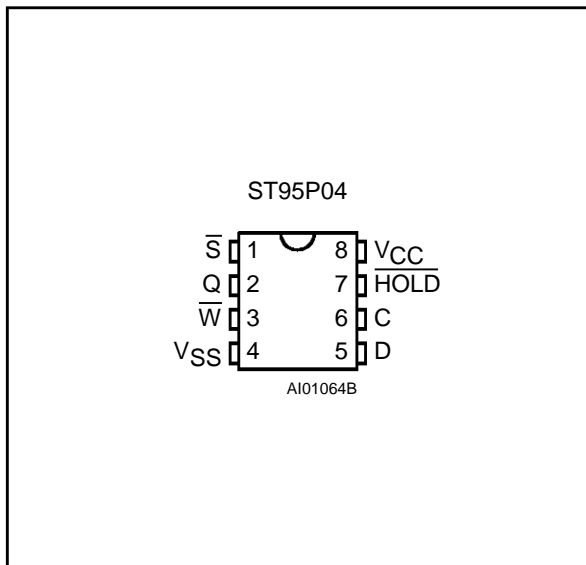
The ST95P04 is a 4K bit Electrically Erasable Programmable Memory (EEPROM) fabricated with SGS-THOMSON's High Endurance Single Polysilicon CMOS technology. The 4K bit memory is organised as 32 pages of 16 bytes. The memory is accessed by a simple SPI bus compatible serial interface. The bus signals are a serial clock input (C), a serial data input (D) and a serial data output (Q). The device connected to the bus is selected when the chip select input ( $\bar{S}$ ) goes low. Communications with the chip can be interrupted with a hold input ( $\overline{HOLD}$ ). The write operation is disabled by a write protect input ( $\bar{W}$ ).

**Logic Diagram**



A101063B

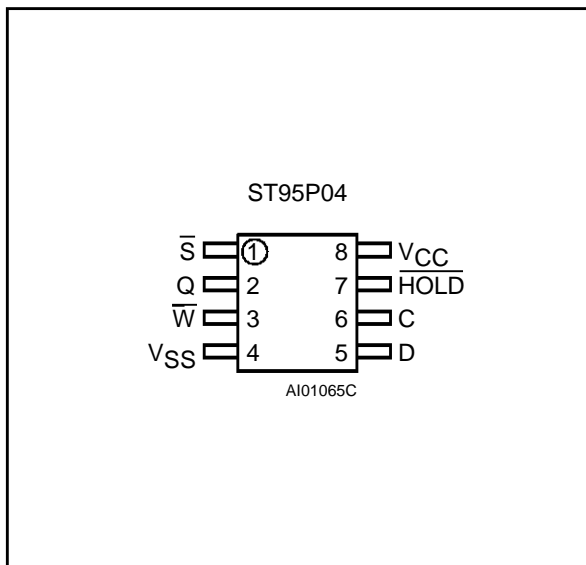
DIP Pin Connections



Signal Names

C	Serial Clock
D	Serial Data Input
Q	Serial Data Output
$\bar{S}$	Chip Select
$\bar{W}$	Write Protect
$\overline{HOLD}$	Hold
VCC	Supply Voltage
VSS	Ground

SO Pin Connections



Ordering Information Scheme

For 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.

Example: ST95P04 M 6 TR

<b>Data Strobe</b>	
P <sup>(1)</sup> D	Q
<b>Package</b>	
B PSDIP8 0.25mm Frame	
M SO8 150mil Width	
<b>Temp. Range</b>	
1 0 to 70 °C	
6 -40 to 85 °C	
3 -40 to 125 °C	
<b>Option</b>	
TR Tape & Reel Packing	

**Note:** 1. Data In strobed on rising edge of the clock (C) and Data Out synchronized from the falling edge of the clock.