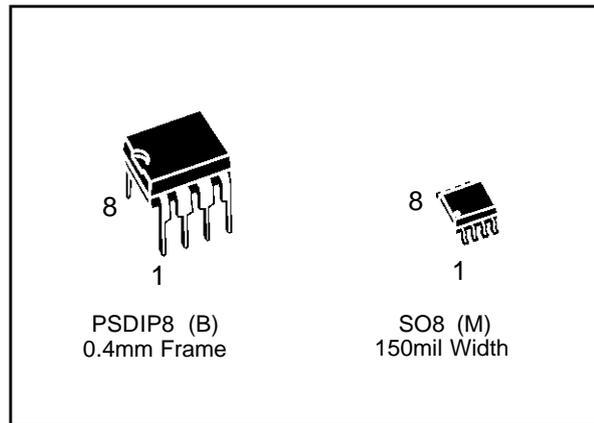


SERIAL MICROWIRE BUS 1K (64 x 16) EEPROM

DATA BRIEFING

- 1 MILLION ERASE/WRITE CYCLES, with 40 YEARS DATA RETENTION
- SELF-TIMED PROGRAMMING CYCLE with AUTO-ERASE
- READY/BUSY SIGNAL DURING PROGRAMMING
- SINGLE SUPPLY VOLTAGE
 - 3V to 5.5V for the ST93CS46
 - 2.5V to 5.5V for the ST93CS47
- USER DEFINED WRITE PROTECTED AREA
- PAGE WRITE MODE (4 WORDS)
- SEQUENTIAL READ OPERATION
- 5ms TYPICAL PROGRAMMING TIME

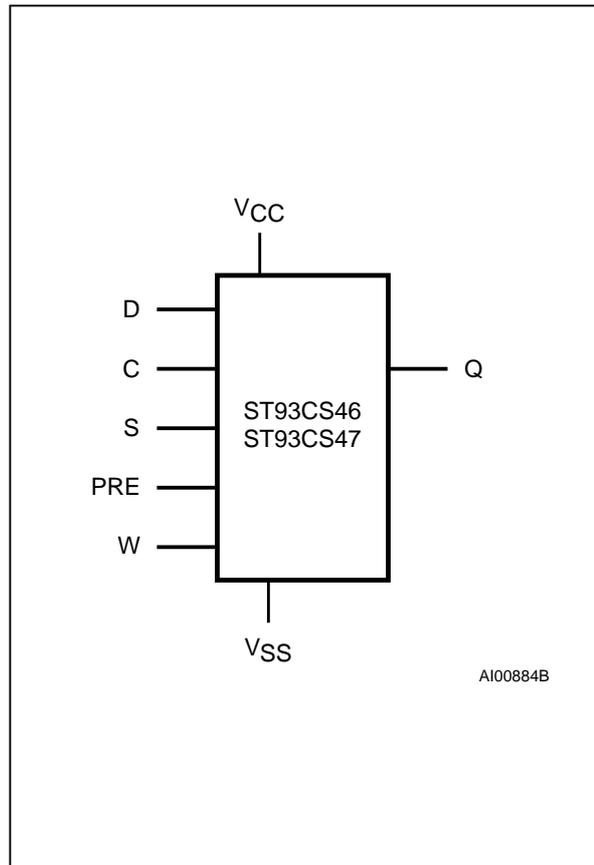


DESCRIPTION

The ST93CS46 and ST93CS47 are 1K bit Electrically Erasable Programmable Memory (EEPROM) fabricated with SGS-THOMSON's High Endurance Single Polysilicon CMOS technology. The memory is accessed through a serial input D and output Q.

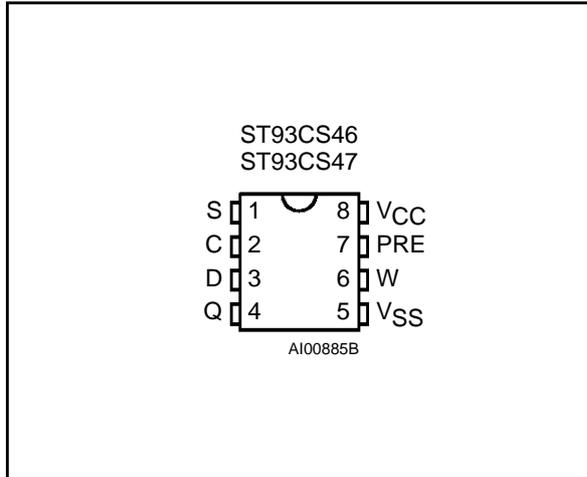
The 1K bit memory is organized as 64 x 16 bit words. The memory is accessed by a set of instructions which include Read, Write, Page Write, Write All and instructions used to set the memory protection. A Read instruction loads the address of the first word to be read into an internal address pointer.

Logic Diagram



ST93CS46, ST93CS47

DIP Pin Connections



Signal Names

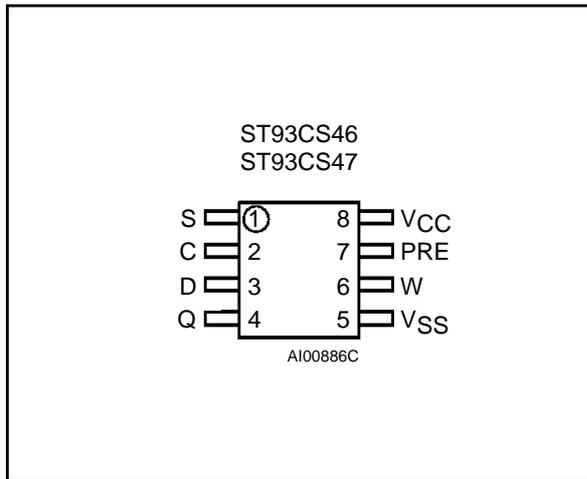
S	Chip Select Input
D	Serial Data Input
Q	Serial Data Output
C	Serial Clock
PRE	Protect Enable
W	Write Enable
V _{CC}	Supply Voltage
V _{SS}	Ground

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.

SO Pin Connections



Example: ST93CS46 M 1 013TR

Operating Voltage	
46	3V to 5.5V
47	2.5V to 5.5V
Package	
B	PSDIP8 0.4mm Frame
M	SO8 150mil Width
Temp. Range	
1	0 to 70 °C
6	-40 to 85 °C
3	-40 to 125 °C
Option	
	013TR Tape & Reel Packing