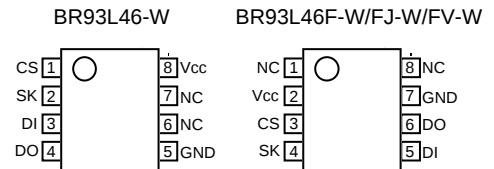


BR93L46-W/F-W/RF-W/FJ-W/RFJ-W/ FV-W/RFV-W/RFVM-W

Features

- 1k bit serial EEPROM organized as 64 × 16bit
- Low voltage operation
Read : 1.8~5.5V
Write : 1.8~5.5V
- Low current consumption
Active : 1.5mA MAX (Vcc=1.8~2.5V)
3mA MAX (Vcc=2.5~5.5V)
Standby : 2μA MAX
- Clock frequency : 500kHz MAX (Vcc=1.8~2.5V)
2MHz MAX (Vcc=2.5~5.5V)
- Write cycle time : 5ms MAX
- Address auto-increment function during read operation
- Automatic erase-before-write function during write operation
- Inadvertent write protection function
Defaults to power up with write-disabled state
Software instructions for write-enable/disable
Inadvertent write protection at low voltage (Vcc Lock-out function)
- READY/ $\overline{\text{BUSY}}$ Status indicator function (DO pin)
- Schmitt trigger circuit & noise filter are built into SK, DI pin.
- TTL compatible input/output
- 1,000,000 write cycle typical
- 40 years data retention
- Operating temperature range : -40~85°C

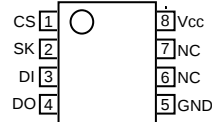
Pin Configuration



DIP8

SOP8/SOP-J8/SSOP-B8

BR93L46RF-W/RFJ-W/
/RFV-W/RFVM-W

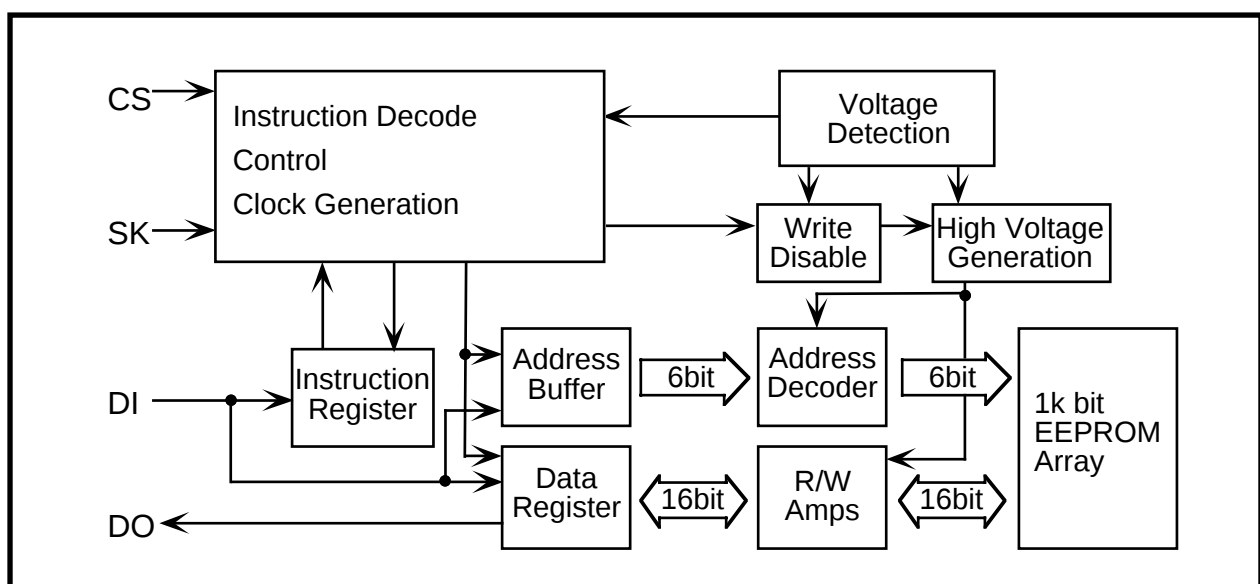


SOP8/SOP-J8/SSOP-B8/MSOP8

Pin Functions

Pin Names	Functions
CS	Chip Select
SK	Serial Data Clock
DI	Serial Data Input
DO	Serial Data Output
GND	Ground
Vcc	Power Supply

Block Diagram



ROHM EEPROM
1.8V Low voltage
operating

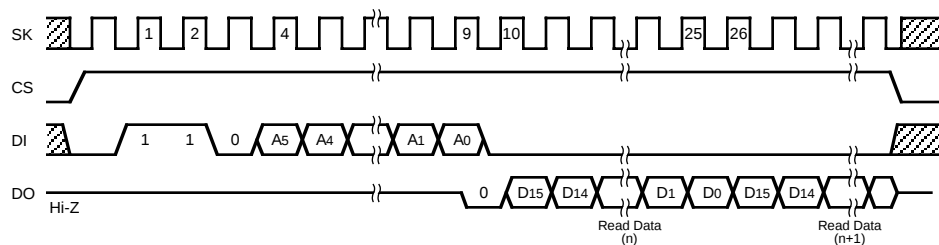
ROHM EEPROM
1,000,000
Write cycle

ROHM EEPROM
Double Cell

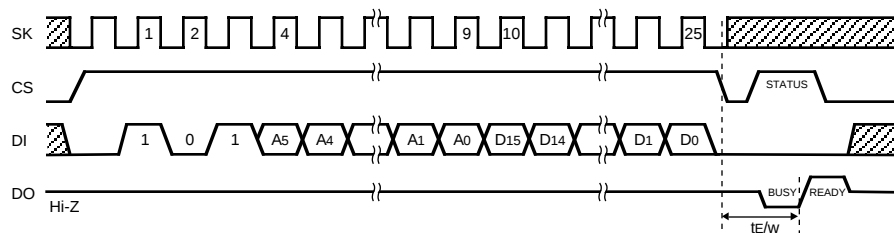
Serial 3 Wire Interface

Timing chart

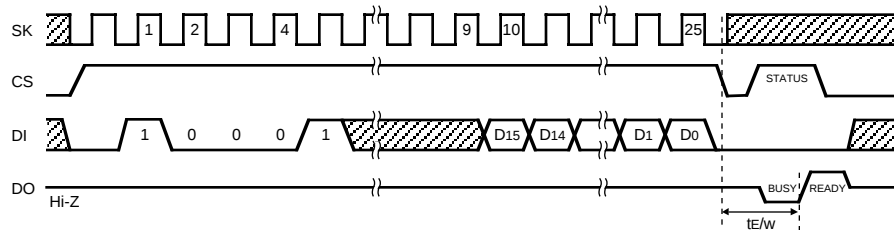
■ Read cycle



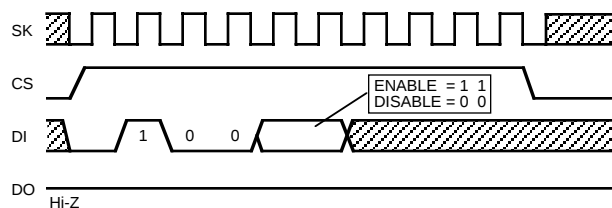
■ Write cycle



■ Write all registers cycle



■ Write enable / disable cycle



Note : BR93LL46F/FV, BR93LC46/F/RF/FJ/RFJ/FV are single-cell types.
Please be careful not to confuse w-cell type and single-cell type.
("-W" means double-cell type.)