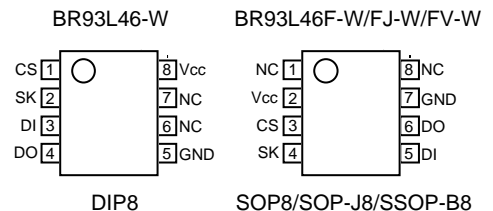


BR93L46-W/F-W/RF-W/FJ-W/RFJ-W/ FV-W/RFV-W/RFVM-W

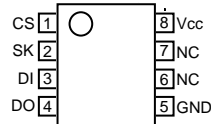
Features

- 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 (V_{cc}=1.8~2.5V)
3mA MAX (V_{cc}=2.5~5.5V)
Standby : 2μA MAX
- Clock frequency : 500kHz MAX (V_{cc}=1.8~2.5V)
2MHz MAX (V_{cc}=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 (V_{cc} 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



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

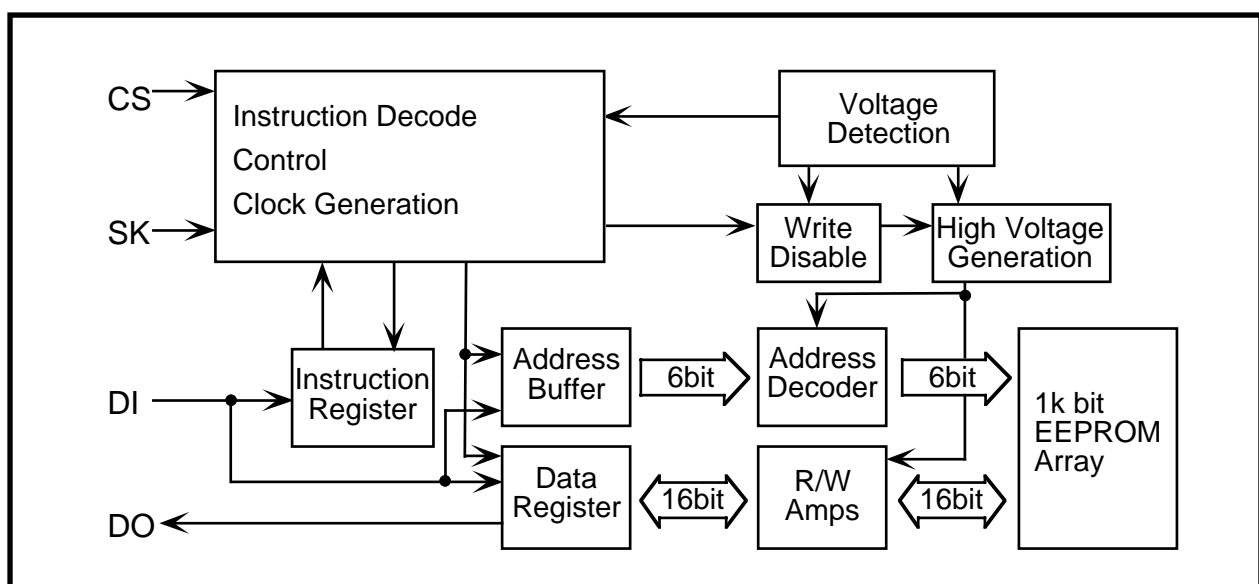


SOP8/SOP-J8/SSOP-B8/MSOP8

Pin Functions

Pin Names	Functions
CS	Chip Select
SK	Serial Data Clock
DI	Serial Data Input
DO	Serial Data Output
GND	Ground
V _{cc}	Power Supply

Block Diagram



ROHM EEPROM
1.8V Low voltage
operating

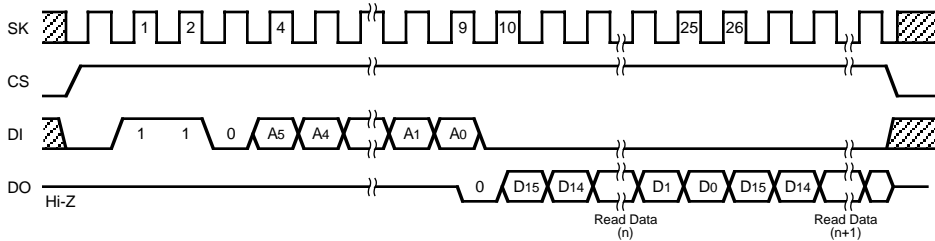
ROHM EEPROM
1,000,000
Write cycle

ROHM EEPROM
Double Cell

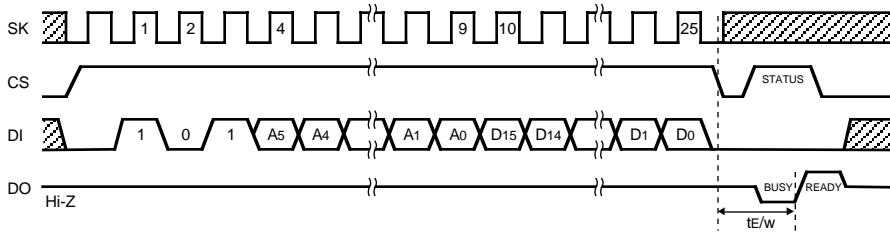
Serial 3 Wire Interface

Timing chart

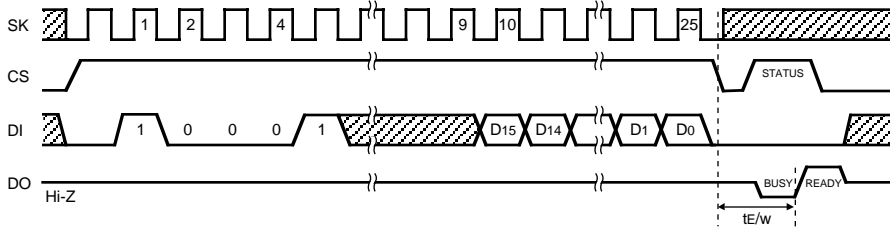
Read cycle



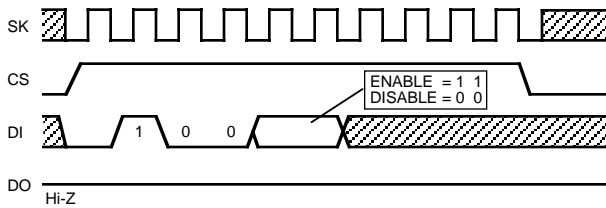
Write cycle



Write all registers cycle



Write enable / disable cycle



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