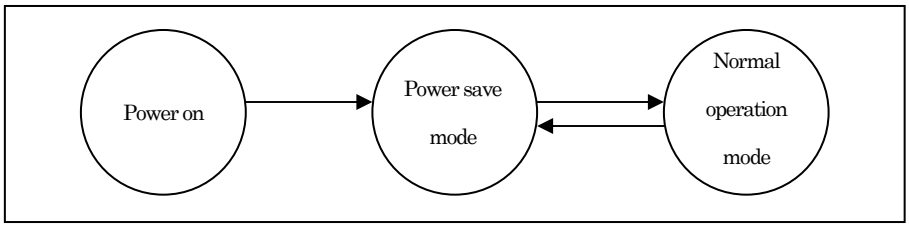
--1 S1D13700 required procedure after power on

S1D13700 automatically set to power save mode after power on and reset pulse input (RESET#). To make any command write active, S1D13700 must be set to normal operation mode.



Under power save mode, clock distribution for S1D13700 internal circuits are stopped (*1) and all of the operations are stopped at all.
It results no command acquisition and all of the S1D13700 output for LCD driver are indefinite except for YDIS output (This signal indicates LCD power down state. The output level is 'L' during power save mode).

Under normal operation mode, clock distribution to internal circuits are active.
Setting S1D13700 to normal operation mode makes each command write active.
S1D13700 starts display output by writing the command DISPON (0x8009, C=59) after writing each essential commands.

(*1: In case of using oscillator circuit, oscillation is active. However, the clock distribution to internal circuits are stopped.)

--2 How to release or set power save mode

Release from power save mode (Power save mode -> Normal mode)

In case of direct mode: Write '0' to 0x8008 bit0 (SleepIn)

In case of indirect mode: Access to SYSTEM SET C=40

Access to SYSTEM SET P1 (*2)

(*2: It requires access to P1.)

Set to power save mode (Normal mode -> Power save mode)

In case of direct mode : Write '1' to 0x8008 bit0 (SleepIn)

In case of indirect mode: Access to SLEEPIN C=53

Display output starts by releasing power save mode

After power on and reset pulse input (RESET#), following sequence makes display output start.

1. Set to normal operation mode.
2. Write each essential commands.
3. Write DISPON(0x8009, C=59) command.

END