

CHARACTER MODULE INITIALIZATION

Internal Reset Circuit

The module is automatically initialized when the power is applied. The following commands are executed during initialization. The busy flag is kept in the busy state until initialization is complete. The busy state lasts for 20 ms after V_{DD} reaches 4.5 volts.

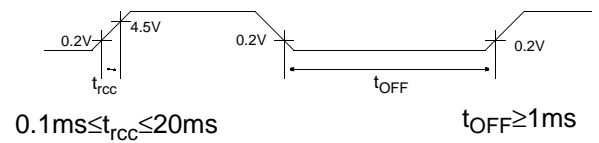
- 1) Clear Display
- 2) Function set
 - DL=1.....8-bit data length for interface
 - N=0.....Single-line display
 - F=0.....5x7 dot matrix character font
- 3) Display ON/OFF Control
 - D=0.....Display OFF
 - C=0.....Cursor OFF
 - B=0.....Blink function OFF
- 4) Entry Mode Set
 - I/D=1.....Increment Mode
 - S=0.....Display shift OFF

NOTE:

If the following power conditions are not satisfied, the internal reset circuit does not function properly. In this case, the initialization should be executed by the series of instructions from outside the MPU (Software Initialization).

Power Conditions for Internal Reset

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply Rise Time	t_{rcc}	0.1	-	10	ms
Power Supply Off Time	t_{OFF}	1.0	-	-	ms



Software Initialization

