SLEEP

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SLEEP	Enter SLEEP mode

Syntax:	[*label*] SLEEP
Operands:	None
Operation:	00h → WDT, 0 → WDT postscaler, 1 → $\overline{TO}$, 0 → $\overline{PD}$
Status Affected:	$\overline{TO}$, $\overline{PD}$
Encoding:	0000 0000 0000 0011
Description:	The power-down status bit ($\overline{PD}$) is cleared. The time-out status bit ($\overline{TO}$) is set. Watchdog Timer and its postscaler are cleared. The processor is put into SLEEP mode with the oscillator stopped.
Words:	1
Cycles:	1

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	No operation	Process Data	Go to sleep

Example: SLEEP

Before Instruction
$\overline{TO}$ = ?
$\overline{PD}$ = ?

After Instruction
$\overline{TO}$ = 1 †
$\overline{PD}$ = 0

†   If WDT causes wake-up, this bit is cleared.

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