HM6818A
REAL TIME CLOCK PLUS RAM

Features

* Counts Seconds, Minutes, and Hours of the Day.
* Counts Days of the Week, Date, Month, and Year.
* Automatic End of Month Recognition.
* Automatic Leap Year Compensation.
* Internal Time Base and Oscillator.
* Time Base Input Options: 4.194304 MHz, 1.048576 MHz or 32.768 KHz.
* Interfaced with Software as 64 bytes RAM Locations.
* 14 Bytes of Clock and Control Register.
* 50 Bytes of General Purpose RAM.
* Binary or BCD Representation of time, Calendar, and Alarm.
* 12-or 24-Hour Clock with AM and PM in 12-Hour Mode.
* Daylight Savings Time Option.
* 3V to 6V Operation.
* Status Bit Indicates Data Integrity.
* Bus compatible Interrupt Signals ($\overline{IRQ}$).
* Three Interrupts are Separately Software Maskable and Testable Time-of-Day Alarm, Once-per-Second to Once-per-Day periodic Rates from 30.5μs to 500ms End-of-Clock Update Cycle.
* Programmable Square-Wave Output Signal.
* Clock Output May Be Used as microprocessor Clock Input At Time Base Frequency ÷ 1 or ÷ 4.
* 40 to 200μW Typical Operation Power at High Frequency Time Base.

Pin Assignment

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MOT	1	24	V_{DD}
OSC1	2	23	SQW
OSC2	3	22	PS
AD0	4	21	CKOUT
AD1	5	20	CKFS
AD2	6	19	$\overline{IRQ}$
AD3	7	18	RESET
AD4	8	17	DS
AD5	9	16	$\overline{STBY}$
AD6	10	15	R/$\overline{W}$
AD7	11	14	AS
V_{SS}	12	13	$\overline{CE}$