



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 ($\overline{\text{IRQ}}$).
- * Three Interrupts are Separately Software Maskable and Testable Time-of-Day Alarm, Once-per-Second to Once-per-Day periodic Rates from 30.5 μ s 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 $\div 1$ or $\div 4$.
- * 40 to 200 μ W Typical Operation Power at High Frequency Time Base.

Pin Assignment

HM 6818A			
MOT	1	24	V_{DD}
OSC1	2	23	SQW
OSC2	3	22	PS
AD0	4	21	CKOUT
AD1	5	20	CKFS
AD2	6	19	$\overline{\text{IRQ}}$
AD3	7	18	RESET
AD4	8	17	DS
AD5	9	16	STBY
AD6	10	15	R/W
AD7	11	14	AS
V_{SS}	12	13	$\overline{\text{CE}}$