

■ FUNCTIONS

- 5 Functions : month, date, hour, minute and second.
- Selective alternation of time-date display mode.
- One-touch correction of time error within ± 30 seconds.
- 4-year calendar.
- 2-switch sequential operating
- LCD test

■ FEATURES

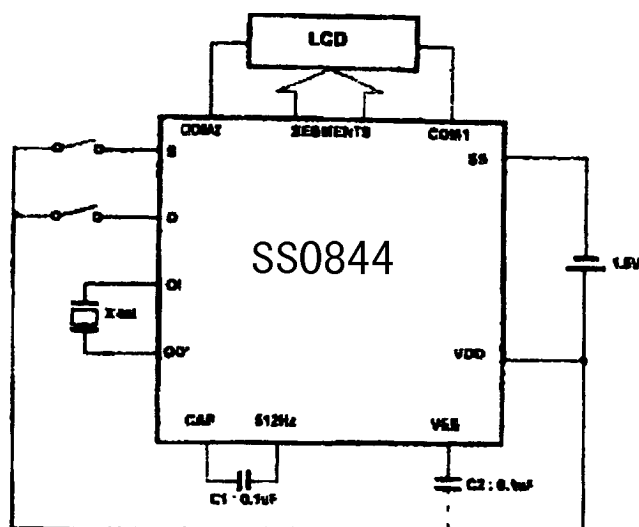
- Single-chip CMOS construction
- Drives 3.5-digit duplexed LCD
- Low power dissipation (I_{DD} : Typ. 1.5 μ A, Max. 2.5 μ A; 1.5V operation).
- 32,768Hz crystal controlled operation
- Single 1.5V battery operation
- On-chip capacitive voltage doubler
- Debounce circuitry on switch inputs
- Protection against static discharge
- Built-in crystal oscillator π -network input capacitor
- Trimmer capacitor is user selectable (bonding option)

■ ELECTRICAL CHARACTERISTICS

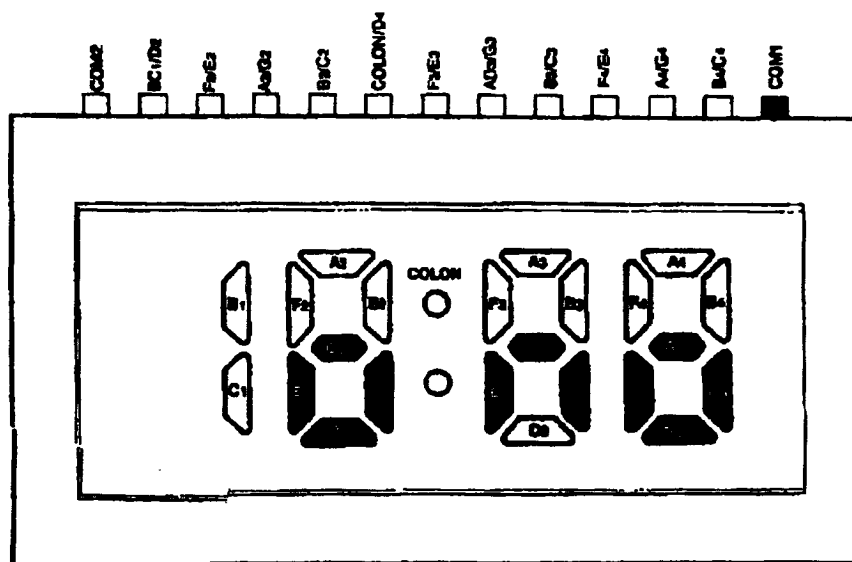
($T_a = 25^\circ\text{C}$, $V_{SS} = -1.5\text{V}$, $V_{DD} = 0\text{V}$; unless otherwise specified)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Operating Voltage	$ V_{SS} $		1.3	1.5	1.7	V
Operating Voltage	$ V_{EE} $		2.6	3.0	3.4	V
Supply Current	I_{DD}	Without load		1.5	2.5	μA
Input High Voltage	V_{IH}		$V_{SS}+0.3$		V_{SS}	V
Input Low Voltage	V_{IL}		-0.3		0	V
Switch Activation Current	I_{SW}	$V_{IN} = V_{DD}$	0.1	1.0	10	μA
Oscillator Start Voltage	$ V_{OSC} $	Within 5 sec			1.45	V
Oscillator Input Capacitor	CI			25		pF
Oscillator Frequency	F_{OSC}	$C_1 = 25\text{pF}$, $C_0 = 20\text{pF}$		32,768		Hz
DC-DC Conversion Freq.	F_{CON}	$C_1 = C_2 = 0.1\mu\text{F}$		512		Hz
LCD Frequency	FD			32		Hz
SW Debouncing Time	TD				62.5	msec

■ APPLICATION CIRCUIT



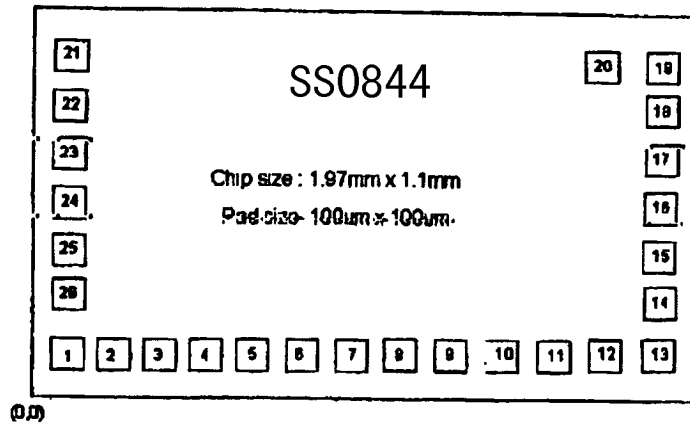
■ LCD FORMAT



SUNSTAR

SS0844

■ PAD LOCATION



■ PAD LOCATION

Pad	Name	X	Y	Pad	Name	X	Y
1	B4/C4	140	120	14	OO	1830	290
2	A4/G4	285	120	15	OI	1830	440
3	F4/E4	430	120	16	OI'	1830	555
4	B3/C3	570	120	17	V _{DD}	1830	700
5	AD3/G3	710	120	18	VCP	1830	840
6	F3/E3	850	120	19	VCM	1830	980
7	COL/D4	990	120	20	T2	1705	985
8	B2/C2	1130	120	21	V _{SS}	140	980
9	A2/G2	1270	120	22	S	140	840
10	F2/E2	1410	120	23	V _{DD}	140	700
11	BC1/D2	1550	120	24	V _{EE}	140	560
12	COM2	1690	120	25	D	140	420
13	T1	1835	115	26	COM1	140	260

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