

FEATURES

- Measurement accuracy: $\pm 1^{\circ}\text{C}$
- Resolution : 0.2°C ($^{\circ}\text{F}$)
- $3\frac{1}{2} + 7$ Indicators, $\frac{1}{2}$ duty LCD
- Low power consumption
- Few external components
- Easiness in adjustment
- Single 1.5V battery operation
- Bare chip is available

FUNCTIONS

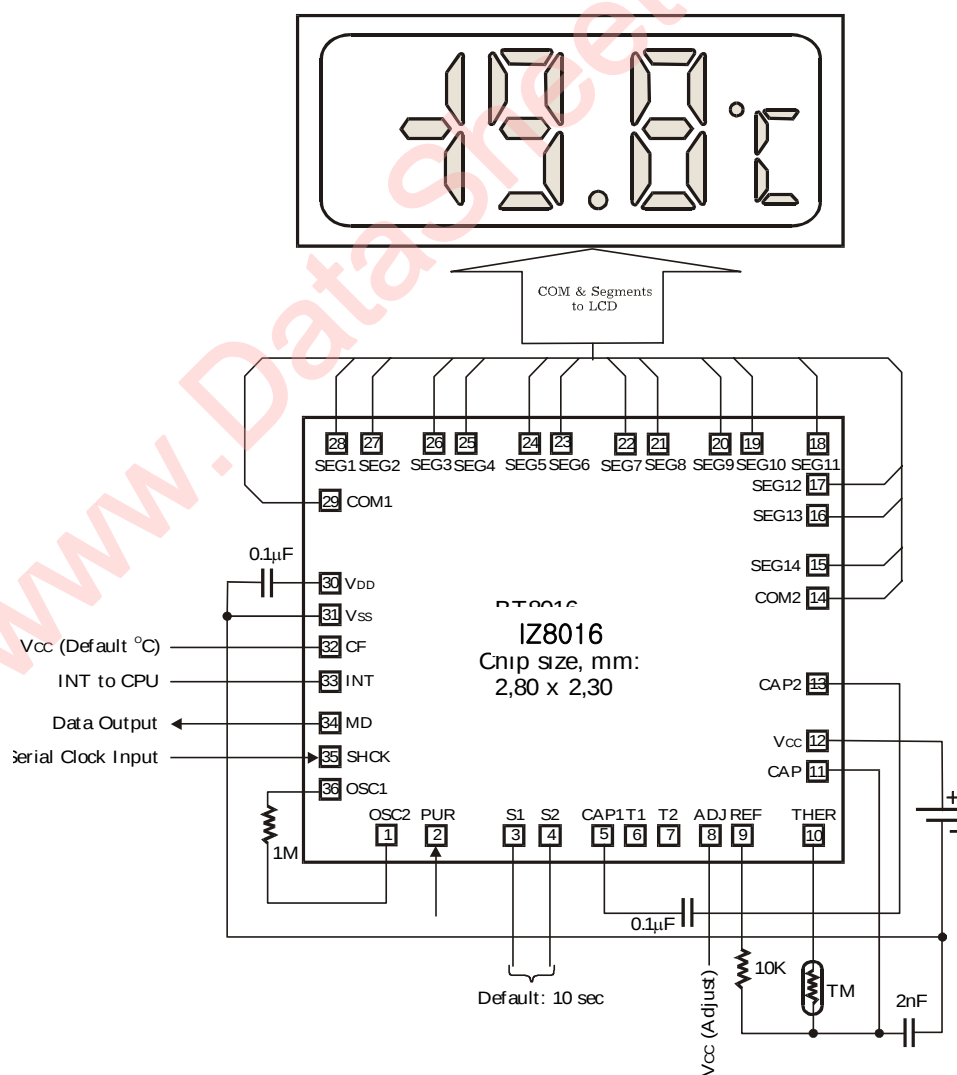
- Measurable temperature range $-49^{\circ}\text{C} \sim +49.8^{\circ}\text{C}$
 $-57^{\circ}\text{F} \sim +121.8^{\circ}\text{F}$
- Suitable Thermistor $R_T = 10\text{k}\Omega \pm 1\%$ (at 25°C)
- Sampling Cycle 1 seconds, 3 seconds, 5 seconds, 10 seconds (Default 10 sec)
- Oscillation Frequency 32.768 KHz
- Temperature adjustment: Adjustment of temperature is made by adjusting fundamental resistance against dispersion in resistance values of thermistors

ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Operating Voltage	V_{CC}		1.20	1.50	2.00	V
LCD Voltage	V_{DD}			3.00		V
Supply Current	I_{CC}	Operating		50	80	μA
	I_{STD}	Standby		5	10	μA

APPLICATION CIRCUIT



TM – Thermistor CN36-2H103FB