

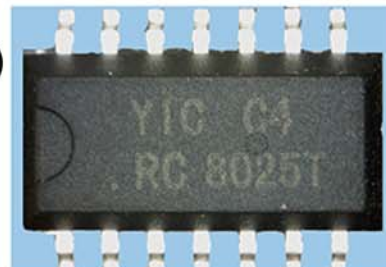
YIC Real Time Clock Modules

Real Time Clock Module (RTC Module)

RC8025T

● Features

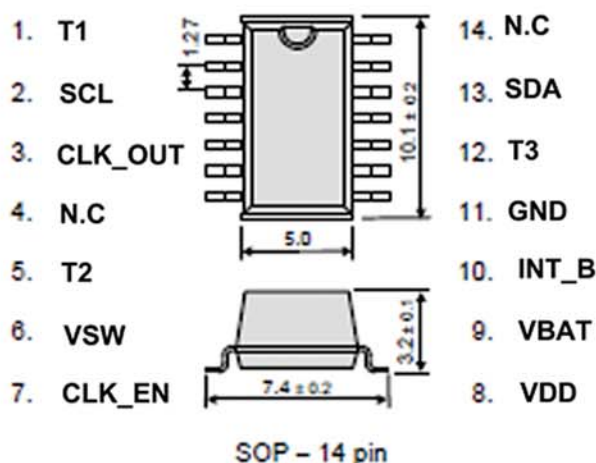
- ★ Frequency Stability: $\pm 5\text{ppm}$ over $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- ★ Built-in 32.768 kHz crystal unit DTCXO (temperature compensated crystal oscillator)
- ★ Interface Type : I2C-Bus Interface (400KHz.)
- ★ Calendar, alarm, timer (sec./min./hour/day/week/month/year), valid up to year 2099
- ★ Operating voltage range : 2.2V to 5.5V
- ★ Wide Timekeeper voltage range : 2.4V to 5.5V
- ★ Low backup current : $0.48\mu\text{A}$
- ★ Power on auto switch circuit, based on volume auto switch, on chip power voltage auto check.
- ★ Allowed chip environmental working temperature measured by on time software test, typical accuracy $\pm 1^{\circ}\text{C}$
- ★ Operating temperature range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$



● Specifications

Symbol	min.	max.	Unit
T_A	-40	85	$^{\circ}\text{C}$
T_S	-55	125	$^{\circ}\text{C}$
V_{DD}	-0.3	7	V
V_{IN}, V_{OUT}	-0.3	$V_{DD}+0.3$	V
$I_{out_{max}}$		10	mA
Aging	25 $^{\circ}\text{C} \pm 2^{\circ}\text{C}$, $V_{DD}=3.0\text{V} \leq \pm 3.0\text{ppm/year}$		

● Pin assignment & Dimension



● Applications Circuit

