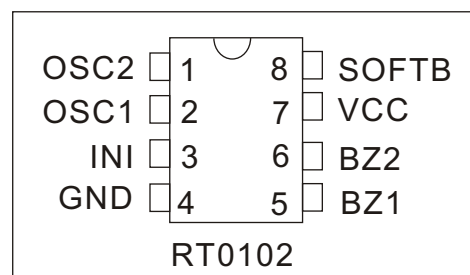


The RT0102 is a CMOS Design for single tone alarm sound application. The SOFT CHIRP only be generated 200ms of the first sound.

Features

Low Operating voltage 2V~5V.
CMOS process.
On-Chip RC oscillator.
Low stand by current.
200ms SOFT CHIRP.

Pin Diagram



Pin Description

Symbol	Description	Pin	I / O
OSC2	Oscillator pin	1	I
OSC1	Oscillator pin	2	O
INI	An internal pull-up resistor. Might disable BZ1, BZ2 when connected to GND.	3	I
GND	Ground	4	
BZ1	Audio output	5	O
BZ2	Audio output	6	O
VCC	Power	7	
SOFTB	Vcc = Single Tone Open = Single Tone with 200 ms soft chirp.	8	I

Electrical Characteristics

Vcc = 3V, Temp. = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating Voltage	Vcc	2.0	3.0	5.0	V
Stand-By Current	Isb		30	50	uA
Operating Current	Iop		300	500	uA
BZ1, BZ2	Ioh	1.0			mA
Driving Current	Iol	1.0			mA
Operating Frequency	Fop		128		KHz

Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
Vcc	Supply Voltage	-0.3 ~ 6	V
Vi	Input Voltage	-0.3 ~ Vcc + 0.3	V
Vo	Output Voltage	-0.3 ~ Vcc + 0.3	V
Tst	Storage Temperature	-40 ~ 125	°C
Ttp	Operating Temperature	0 ~ 65	°C