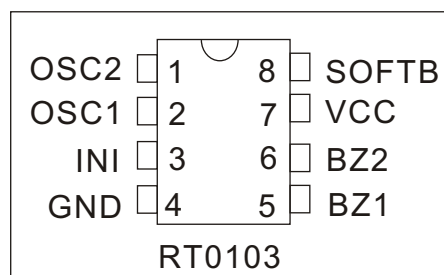


The RT0103 is a CMOS Design for single tone alarm sound application. The SOFT CHIRP only be generated within 200 seconds of the first sound.

Features

Low Operating Voltage 2V ~ 5V
CMOS process
On-Chip RC oscillator
Low stand by current
2 seconds SOFT CHIRP

Pin Diagram



Pin Out And 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 2 seconds 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	I _{sb}		30	50	uA
Operating Current	I _{op}		300	500	uA
BZ1, BZ2	I _{oh}	1.0			mA
Driving Current	I _{ol}	1.0			mA
Operating Frequency	F _{op}		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
T _{st}	Storage Temperature	-40 ~ 125	°C
T _{tp}	Operating Temperature	0 ~ 65	°C