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MELODY GENERATOR

GENERAL DESCRIPTION

The MMC 334 is a low voltage, AI — gate CMOS integrated circuit that outputs a 64-note melody. Because all the data refferring to the melody is stored in on-chip ROMs, a special chip is manufactured for every melody. Any melody may be requested, also including „pause" notes. Output is designed for use with a ceramic transducer or a high impedance speaker. A low impedance speaker may be used with an additional amplifier. The MMC 334 is available in 8 lead dual-in-line package, or unpacked.

FEATURES

- Low voltage CMOS technology
- Low power consumption
- On-chip oscillator
- Maximum number of notes : 64
- Generated frequencies : 2 octaves (16 distinct frequencies only)
- Note length : 1/16 to 1/1 at programmable tempo
- Programmable note's envelope (32 steps & 16 levels)

ABSOLUTE MAXIMUM RATINGS

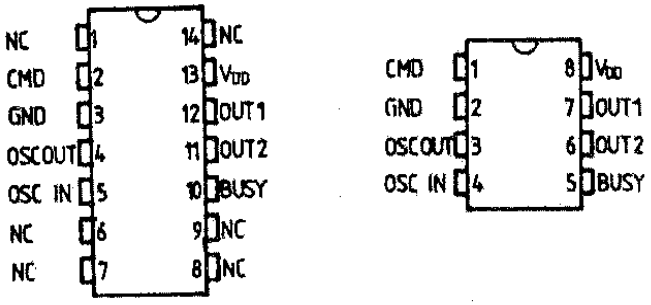
V_{DD}	Supply voltage	1.5 to 5.5 V
I_{DD}	Supply current — stand-by	max. 20µA
	— functionning with ceramic transducer	typ. 0.8mA✲
R	External resistor	30 to 500 kΩ✲

✲ Depending on the programmed melody

PIN DESIGNATION

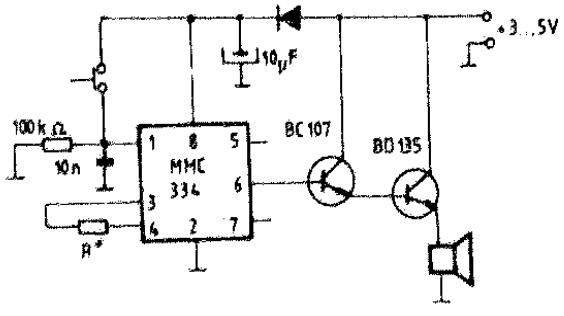
NAME	NUMBER	DESCRIPTION
CMD	1	Input command pin active high. A pulse on this pin starts the melody. It is internally pulled-up resulting in continous playing.
GND	2	Ground
OSCOUT	3	Output pin for internal oscilator use. Connecting a resistor between OSCOUT and OSCIN pins activates the on-chip oscillator.
OSCIN	4	Input pin for internal oscillator use. It may be driven by an external clock generator.
BUSY	5	Output pin, active low, indicating that the melody is in progress.
OUT1, OUT2	6,7	Opposite analog outputs
V_{DD}	8	Supply voltage

CONNECTION DIAGRAM



TYPICAL APPLICATIONS

Door bell



Clock alarm

