BOWIN

Bowin Microelectronics

UM66T-05L

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UM66T Simple Melody Generator

Features

- 64-note ROM memory
- 1.3V to 3.3V operating voltage and low power consumption
- Packaged in inexpensive TO-92 package

- Bulit-in RC oscillator
- Level-hold mode to play repeatedly
- Dynamic speaker can be driven with external NPN transistor.

General Description

The UM66T series is a CMOS LSI designed melody generator IC for use in telephones and toys application. It has an on-chip ROM programmed for musical performance. Produced by CMOS technology, the device results in very low power consumption. And with built-in RC oscillator, a compact melody module can be constructed with only a few additional components.

Absolute Maximum Ratings

DC Supply Voltage .... -0.3V to +5.0V
Operating Ambient Temperature .... -10°C to 60°C
Storage Temperature .... -55°C to 125°C

Electrical Characteristics

(Vss=0V, V_{DD}=1.5V, Ta=25°C, unless otherwise specified.)

Parameter	Symbol	Min.	Typ.	Max.	Conditions
Operating voltage	V_{DD}	1.3V	1.5V	3.3V	
Current Consumption	I_{DD}	-	16µA	50µA	Playing with no load
Output Current	Io/p	2mA	-	-	
Osc. frequency	Focs	63kHz	90kHz	117kHz	

Song Series List

Part number	Song name
UM66T-01L	Jingle Bells + Santa Claus Is Coming To Town + We Wish You A Merry Christmas
UM66T-05L	Home Sweet Home
UM66T-09L	Wedding March (Mendelssohn)
UM66T-19L	For Alice
UM66T-32L	Coo Coo Waltz
UM66T-68L	It Is A Small World

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Pin Configuration (Front View)


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UM66T
- XX L
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3    2    1
Vss VDD O/P
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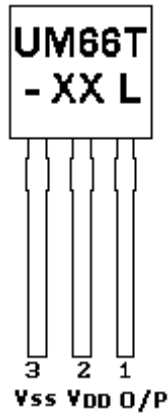
Pin no.	Symbol	Description
1	O/P	Melody Output
2	VDD	Positive Power Supply
3	Vss	Negative Power Supply

Typical Application Circuits

LEVEL HOLD MODE FOR SPEAKER   LEVEL HOLD MODE FOR PIEZO BUZZER
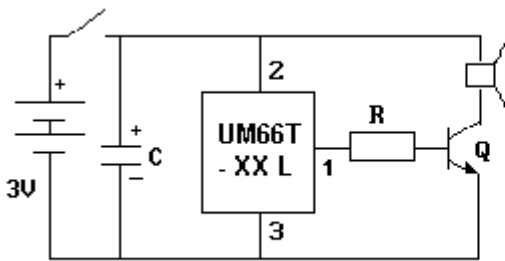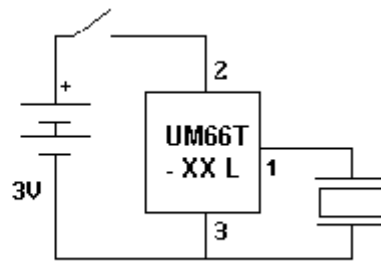
Recommended values : C = 1µF , R = 4.7KΩ , Q = 2SC9013

REV.9-2008 (2 pages)