

Bowin Microelectronics

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 Voltage0.3	V to +	5.0V
Operating Ambient Temperature10	°C to 6	0°C
Storage Temperature55°	°C to 1	25°C

Electrical Characteristics

(Vss=0V, VDD=1.5V, Ta=25°C, unless otherwise specified.)

(100 01, 122 1101, 14 20 0, 4111000 04110111100 0400111041)					
Parameter	Symbol	Min.	Тур.	Max.	Conditions
Operating voltage	VDD	1.3V	1.5V	3.3V	
Current Consumption	IDD	-	16μΑ	50μΑ	Playing with no load
Output Current	lo/p	2mA	-	-	
Osc. frequency	Focs	63kHz	90kHz	117kHz	

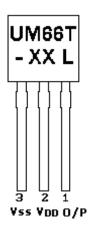
Song Series List

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)

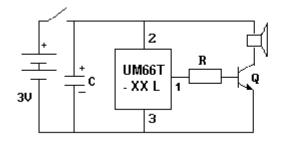


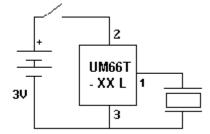
Pin no.	Symbol	Description
1	O/P	Melody Output
2	VDD	Positive Power Supply
3	Vss	Negative Power Supply

Typical Application Circuits

LEVEL HOLD MODE FOR SPEAKER

LEVEL HOLD MODE FOR PIEZO BUZZER





Recommended values : $C = 1\mu F$, $R = 4.7 K\Omega$, Q = 2SC9013

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