BOWIN 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 repeatedlyDynamic speaker can be driven with
- Dynamic speaker can be driven will 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	0.3V	to +5.0V
Operating Ambient Temperature	10°C	to 60°C
Storage Temperature	55°C	to 125°C

Electrical Characteristics

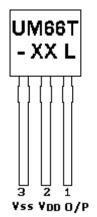
(Vss=0V, VDD=1.5V, Ta=25°C, unless otherwise specified.)					
Parameter	Symbol	Min.	Тур.	Max.	Conditions
Operating voltage	Vdd	1.3V	1.5V	3.3V	
Current Consumption	IDD	-	16µA	50μΑ	Playing with no load
Output Current	lo/p	2mA	-	-	
Osc. frequency	Focs	63kHz	90kHz	117kHz	

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

UM66T-01L

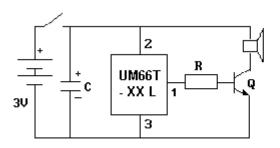
Pin Configuration (Front View)



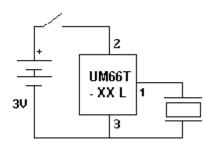
Pin no.SymbolDescription1O/PMelody Output2VDDPositive Power Supply3VssNegative Power Supply

Typical Application Circuits

LEVEL HOLD MODE FOR SPEAKER



LEVEL HOLD MODE FOR PIEZO BUZZER



Recommended values : C = 1 μ F , R = 4.7K Ω , Q = 2SC9013

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