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Features

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

- OSC resistor is built-in.
- One-shot mode to play and auto stop
- Dynamic speaker can be driven with external NPN transistor.

General Description

The UM66T-08S is a CMOS LSI designed melody generator IC for use in door bells, toys and other consumer products, which require auto-stop playing function. 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 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, Vdd=1.5V, Ta=25°C, unless otherwise specified.)

Parameter	Symbol	Min.	Typ.	Max.	Conditions
Operating voltage	Vdd	1.3V	1.5V	3.3V	
Current Consumption	Idd	-	16µA	50µA	Playing with no load
Output Current	Io/p	2mA	-	-	
Osc. Frequency	Fosc	63kHz	90kHz	117kHz	

Song Series List

Part number	Song name
UM66T-08S	Happy Birthday To You

Pin Configuration (Front View)

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

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3  2  1
Vss Vdd O/P
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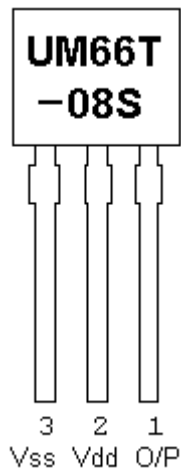
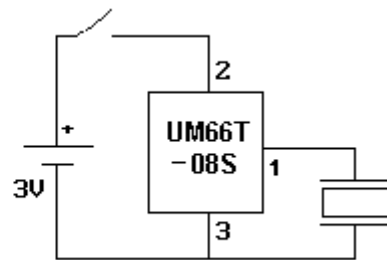**Typical Application Circuits**
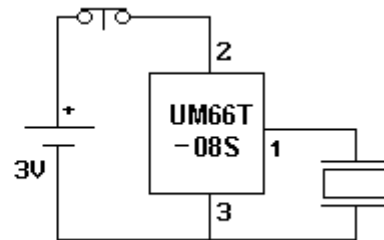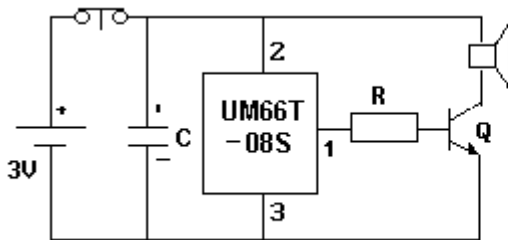
ONE-SHOT MODE FOR SPEAKER   ONE-SHOT MODE FOR PIEZO BUZZER
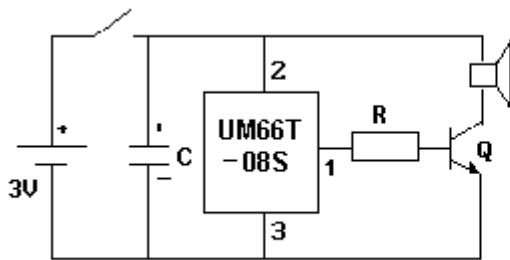
USING NORMALLY CLOSED SWITCH

Recommended values : C = 1µF , R = 4.7KΩ , Q = 2SC9013

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