

UM66T-08S

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
- 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

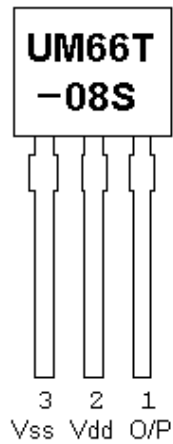
Electrical Characteristics

(V_{ss}=0V, V_{dd}=1.5V, T_a=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	I _{o/p}	2mA	-	-	
Osc. Frequency	F _{osc}	63kHz	90kHz	117kHz	

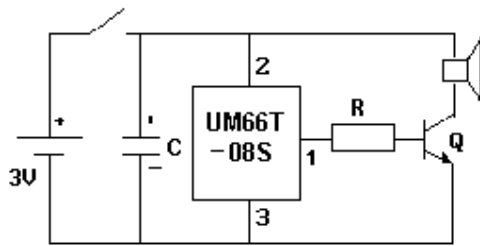
Pin Configuration (Front View)

Pin no.	Symbol	Description
1	O/P	Melody Output
2	V _{dd}	Positive Power Supply
3	V _{ss}	Negative Power Supply

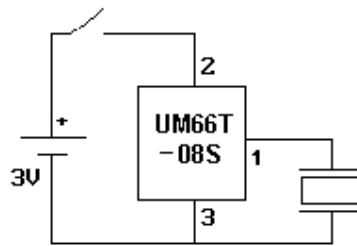


Typical Application Circuits

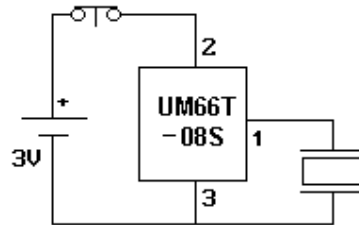
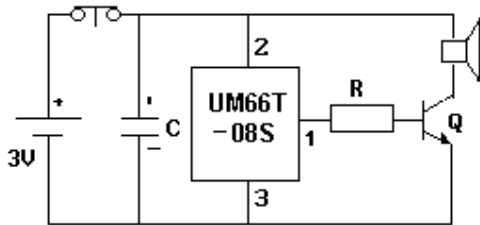
ONE-SHOT MODE FOR SPEAKER



ONE-SHOT MODE FOR PIEZO BUZZER



USING NORMALLY CLOSED SWITCH



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