

FEATURES

- 127-note ROM memory
- 1.3V to 3.3V power supply and low power consumption
- RC oscillator on chip
- One shot or level hold mode
- Sound range: 4 octaves, 2 series
- Tempo: 16 kinds (presto-largo)
- Direct piezo drive

FUNCTIONS

- Solution of automatic stop or repeat of the melody
- Dynamic speaker can be driven with external NPN transistor
- Two or three times repeat of melody (mask option)
- Each note can be individually programmed to be staccato or legato (mask option)
- Changing the contents of melody is possible by reprogramming the maskable ROM
- Power on reset; melody begins from the first note
- Start from the head of melody
- Bare chip is available

DESCRIPTION

The FT66T is a CMOS LSI chip which electronically plays a prearranged melody. Selection of melody start signal is possible by mask option: orders specification suffix "L" indicate Level Hold Mode, and suffix "S" indicate One Shot Mode.

The Universal version (as One Shot or Level Hold Mode) is possible also (suffix "U").

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Value	Unit
DC Supply Voltage	$V_{CC} - V_{SS}$	-0.3 ~ 3.5	V
Input Voltage	V_{IN}	$V_{SS} - 0.3 \sim V_{CC} - 0.3$	V
Operating Temperature	T_{opr}	-20 ~ +65	°C
Storage Temperature	T_{stg}	-55 ~ +125	°C

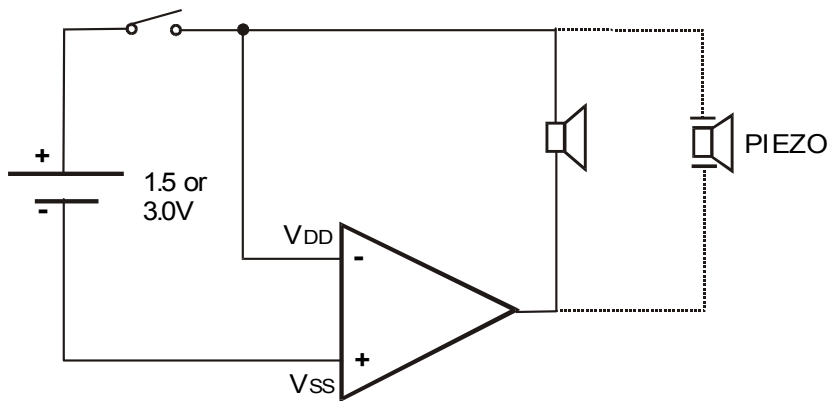
ELECTRICAL CHARACTERISTICS (Ta = 25°C, VCC = 1.5V ; unless otherwise specified)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Operating Voltage	V_{CC}		1.3	1.5	3.3	V
Supply Current	I_S	Stand-by		0.1	1	μA
	I_{CC}	Operating			60	
Output Drive Current	I_{OH}	$V_{CC}=1.3V, V_O=0.8V$	0.6	1.5		mA
Output Sink Current	I_{OL}	$V_{CC}=1.3V, V_O=0.5V$	0.6	1.5		mA
Frequency Stability	$\Delta F/F$	$F_{osc}(1.6V) - F_{osc}(1.3V)$			12	%
		$F_{osc}(1.3V)$				

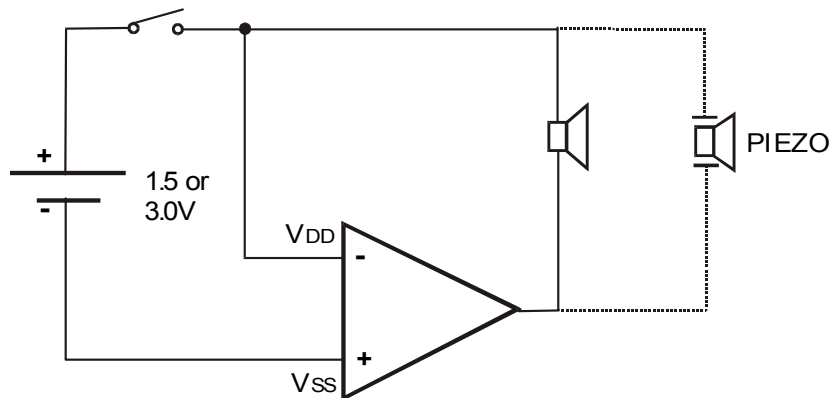


TO-92 ONE SHOT OR LEVEL HOLD MODE CAN BE PROGRAMMED BY MASK OPTION

ONE SHOT
FT66T-XXS



LEVEL HOLD
FT66T-XXL



PIN CONFIGURATION

