

**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

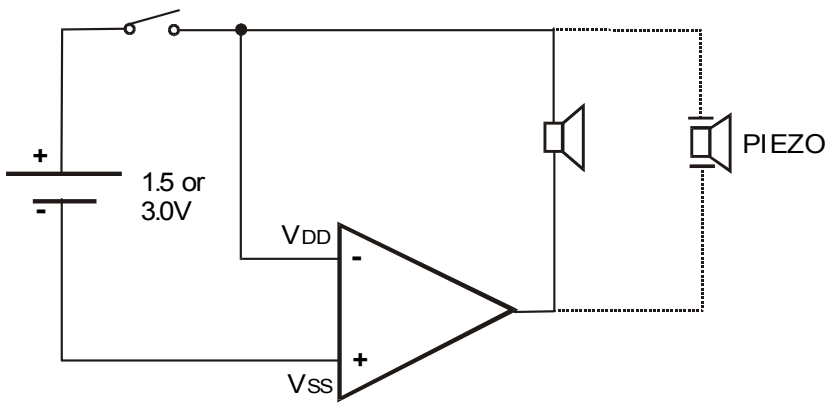
**ELECTRICAL CHARACTERISTICS (Ta = 25°C, VCC = 1.5V; unless otherwise specified)**

Characteristic		Symbol	Test Condition	Min	Typ	Max	Unit
Operating Voltage		$V_{CC}$		1.3	1.5	3.3	V
Supply Current	Stand-by	$I_S$			0.1	1	μA
	Operating	$I_{CC}$	Output open			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	%
			$F_{osc}(1.3V)$				

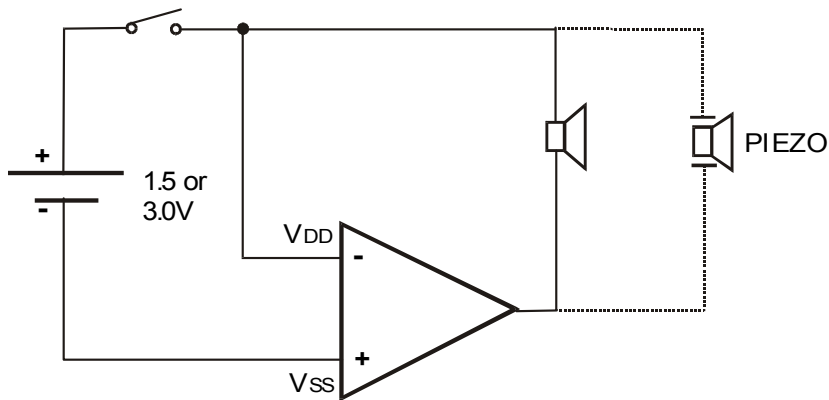


TO-92 ONE SHOT OR LEVEL HOLD MODE CAN BE PROGRAMMED BY MASK OPTION

**ONE SHOT**  
**FT66T-XXS**



**LEVEL HOLD**  
**FT66T-XXL**



**PIN CONFIGURATION**

