SD998
Level Hold and One Shot 128 Notes Dual Tone Melody Generator

Features

- 1.3V to 3.3V power supply.
- Built in oscillator.
- Dual D/A envelope output.
- 128 Notes ROM.
- Piezo-buzzer or speaker output driven by external transistor.
- Level hold or one-shot function can be re-triggerable.

General Description

SD998 series are SD's CMOS melody IC. This IC generates high quality dual tone output with digital envelope. Two kinds of operation modes can be selected, piezo-buzzer or speaker output.

Pin Description

Pin No.	Symbol	Description
1	TR0	Serial trigger pin.
2	GND	Ground.
3	VDD	Positive power supply.
4	TT	Test pin.
5	TS	Test pin.
6	BD	Melody output 1.
7	BDB	Melody output 2.
8	ADJUST	Output DC level adjust pin.
9	TPR	Test pin.

Absolute Maximum Ratings

RATING	VALUE
DC Supply Voltage	< 5.5V
Input/Output Voltage	GND-0.3V to VDD+0.3V
Operating Temperature	0° C to 50° C
Storage Temperature	0° C to 70° C

Notice: Stress greater than those listed under **Absolute Maximum Ratings** may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied , Exposure to absolute maximum rating conditions for extended period may affect reliability.

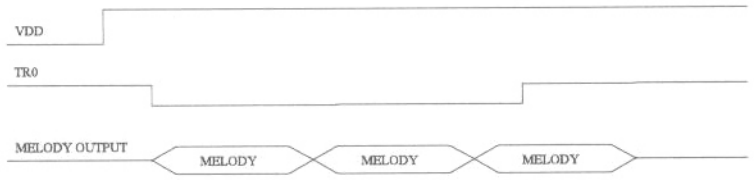
Electrical Characteristics

(VDD =3.0V, GND = 0V, Ta = 25°C, unless otherwise specified)

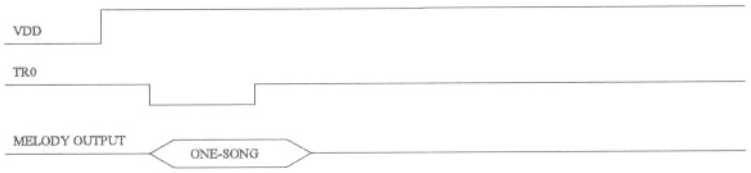
Parameter	Symbol	Min.	Type.	Max.	Condition
Operating Voltage	Vdd	1.3V	3V	3.3V	---
Standby Current	Istb	---	2μA	10μA	No load
Operating Current	Iop	---	---	15mA	No load

Operating Function

Level Hold

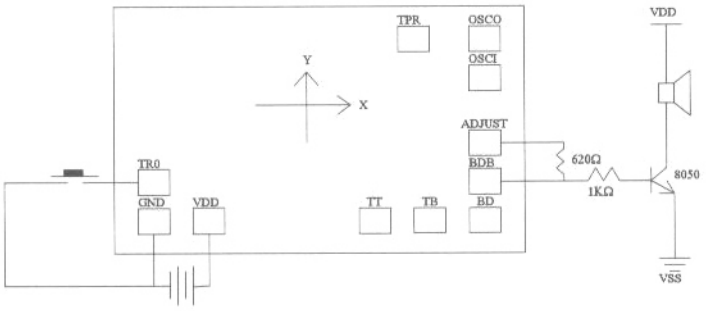
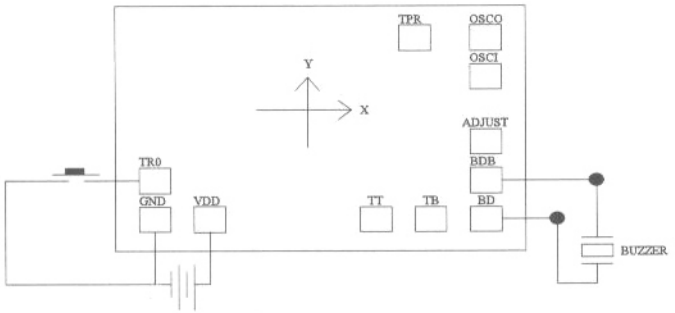


One Shot



Application Circuit

(1)One shot trigger drive speaker



(2)One shot trigger drive buzzer