

## 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

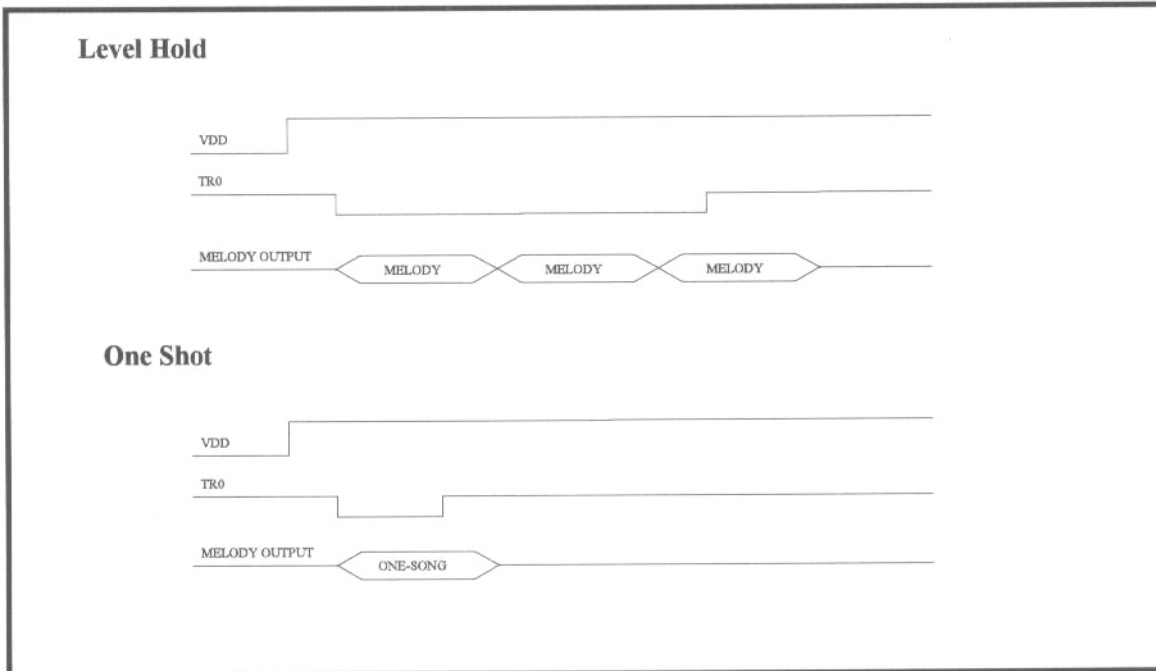
**Notice:** Stress greater than those listed under **Absolute Maximum Ratings** may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not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



**Application Circuit**

