

深圳市普恩科技有限公司

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TC768T

768 NOTES Simple Tone Melody

Features:

- 1、 RC oscillator with one external resistor , Typical oscillator frequency 128KHz
- 2、 14 tempos , 15 beats , 27 notes (including rest) , 768 notes ROM memory available
- 3、 1 sequence trigger key and 3 direct access keys , On-chip envelope modulation
- 4、 Power on reset , melody begins from the first note
- 5、 Lower power consumption

General Description:

TC768T is a new type of CMOS sound generator designed with sound composite system using minimum application circuit . It is dedicated to the applications such as rhythm box , toys , ect . and is easy for you to design your consumer products .

Pin Description:

Pin No	Symbol	Description
1	TESTB	Test pin
2	OSCI	Oscillator input pin
3	OSCO	Oscillator output pin
4	VDD	Positive power supply
5	BD	Melody output pin
6	NPN	Melody output pin
7	TRIB	Sequence trigger key
8	GND	Negative power supply

Absolute Maximum Ratings:

RATING	VALUE
DC Supply Voltage	< 5.5V
Input/output Voltage	GND-0.3V to VDD+0.3V
Operating Temperature	-10 to 60
Storage Temperature	-25 to 125

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.

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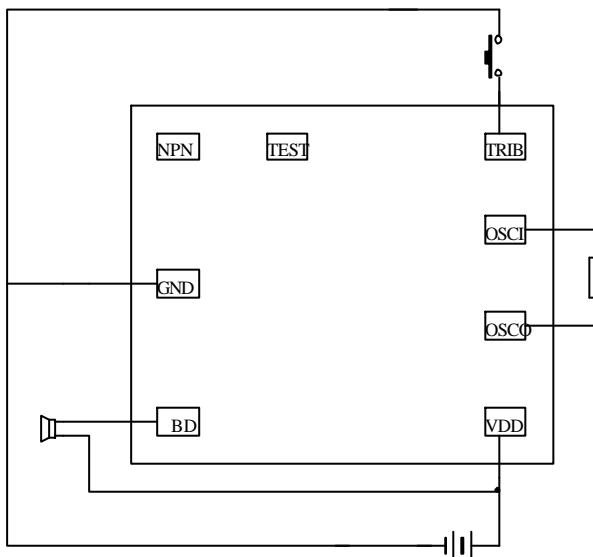
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Electrical Characteristics

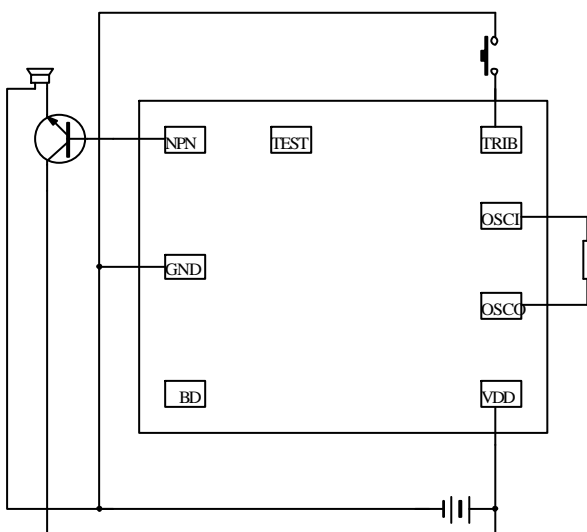
Parameter	Min	Typ	Max	Condition
Operating Voltage	2V	3.0V	5.0V	
Standby Current	-		10uA	Vdd=3V
Operating Current	-	10mA	-	Vdd=3V, NO load
BD drive current	-	5mA	-	Vdd=3V, BD and GND pin connect 200 ohm
Oscillator Frequency	-	180KHZ	-	Vv=3V, Rosc=200Kohm

Application Circuit:

(1)



(2)



***Substrate to GND**