General Description

The M8031-2S is a ding-dong sound effect generator IC produced by LSI CMOS technology. With built-in RC oscillator and digital envelope circuits, minimal external components are required. This IC simulates the mechanical ding-dong sound, and is ideal for door bell application.

Features

- 1.3V to 3.3V operating voltage and low power consumption
- One-shot mode of 2 ding-dong playing sequences
- Standard TO-92 package form
- Dynamic speaker can be driven with external NPN transistor

Absolute Maximum Ratings

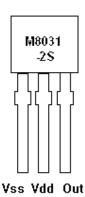
DC Supply Voltage	-0.3V to $+5.0V$
Operating Ambient Temperature1	
Storage Temperature	55°C to 125°C

Electrical Characteristics

(Vss=0V, Vdd=1.5V, Ta=25°C, unless otherwise specified.)

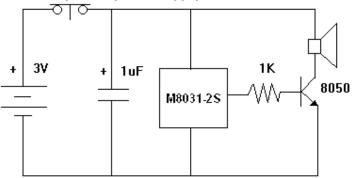
(155 o 1, 1 dd 1.5 1, 1 d 25 e, diffess other wise specifical)					
Parameter	Symbol	Min.	Тур.	Max.	Conditions
Operating voltage	Vdd	1.3V	1.5V	3.3V	
Stand-by current	Is	-	-	0.5μΑ	All terminal open
Operating current	Idd	-	0.5mA	1mA	
Osc. frequency	Focs	102kHz	120kHz	144kHz	

Pin assignment of TO-92 package form



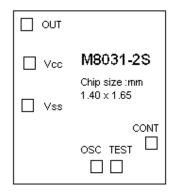
Application Circuit

Switch (normally closed type)



Bonding Pads Diagram

IC chip substrate is connected to Vss.



REV.09-2003