

SIMPLE MELODY IC

128 NOTES SINGLE TONE MELODY

◆ Features

- * Built in 1 LED flash circuit for sound output indication
- * Built oscillator resistor in IC body
- * Can be driver speaker or buzzer for output device
- * 3 trigger modes by one-shot non re-trigger , level hold , power on/off
- * Separate two trigger keys for trigger mode by one shot non retrigger (TG1) and level hold (TG2) or power on/off directly control (TG1 & TG2 connect to VDD) for saving power consumption

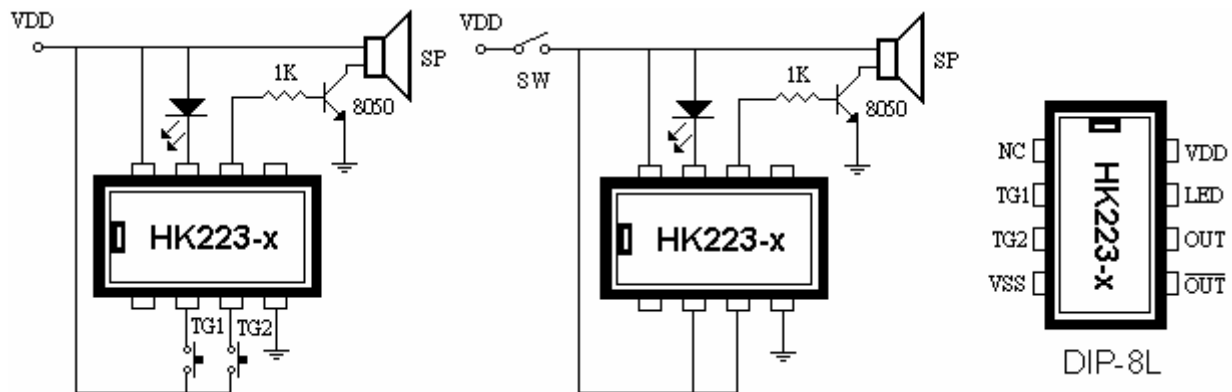
◆ Application

Home Appliance, Clock melody, Key chain, Greeting card

◆ Electrical Characteristics

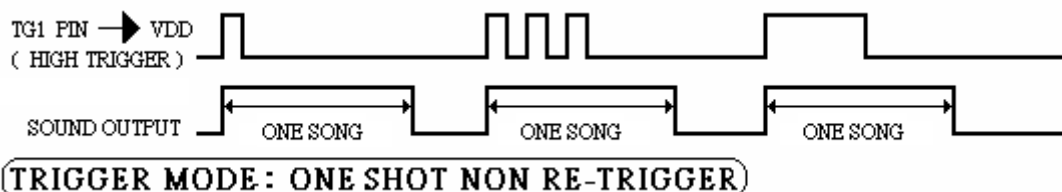
| Characteristics | Sym. | Min. | Typ. | Max. | Unit | Remark |
|-----------------------|------------------|------|------|------|------|-----------------------|
| Operating voltage | V _{DD} | ---- | 1.5 | 3.5 | V | |
| Operating current | I _{OP} | ---- | 0.1 | 0.5 | mA | |
| Stand by current | I _{SB} | ---- | 1 | 5 | uA | |
| Oscillator frequency | F _{OSC} | ---- | 100 | ---- | KHz | ±30% |
| Operating temperature | T _{EMP} | 0 | 25 | 60 | °C | |
| Driving current | I _O | 1 | ---- | ---- | mA | @ V _{DS} =1V |

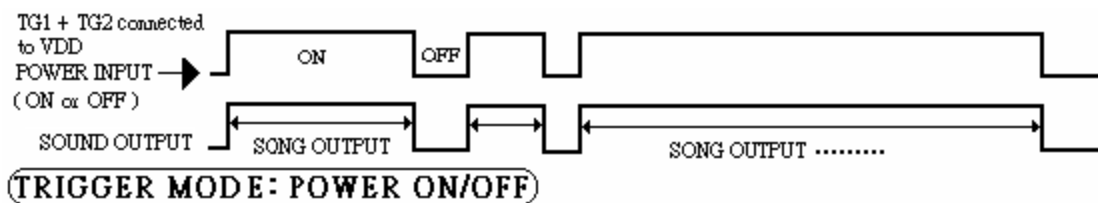
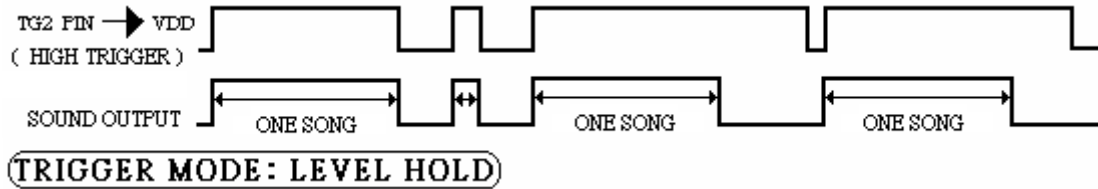
◆ Application circuit



★ Package Type : DIP-8L

★ Trigger Mode and Timing Chart :





◆ Song List

| <u>P/N</u> | <u>SONG NAME</u> | <u>SONG DURATION</u> |
|------------|--|----------------------|
| HK223-07 | LOVE STORY + LOVE ME TENDER LOVE ME TRUE | 42 SEC. |
| HK223-09 | FOR ALICE | 24 SEC. |
| HK223-13 | HOME SWEET HOME | 48 SEC. |
| HK223-1D | MUSIC BOX DANCER | 26 SEC. |
| HK223-1F | HAPPY BIRTHDAY TO YOU | 16 SEC. |
| HK223-1P | AVE MARIA | 24 SEC. |
| HK223-20 | LOVE ME TENDER LOVE ME TRUE | 30 SEC. |
| HK223-21 | LOVE STORY | 36 SEC. |
| HK223-2A | LET ME CALL YOU SWEET HEART | 24 SEC. |
| HK223-2H | YOU ARE MY SUNSHINE | 31 SEC. |
| HK223-3C | ARE YOU SLEEPING + BLIND MICE + ROW YOUR BOAT | 31 SEC. |
| HK223-3G | THE TEDDY BEAR'S PICNIC | 32 SEC. |
| HK223-3M | MARY HAD A LITTLE LAMB | 23 SEC. |
| HK223-3N | TWINKLE TWINKLE LITTLE STAR | 15 SEC. |

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| <u>P/N</u> | <u>SONG NAME</u> | <u>SONG DURATION</u> |
|------------|---|----------------------|
| HK223-3Q | LONDON BRIDGE IS FALLING DOWN + OLD MACDONALD HAS A FARM + TWINKLE TWINKLE LITTLE STAR | 31 SEC. |
| HK223-6A | OVER THE RAINBOW | 54 SEC. |
| HK223-OA | JINGLE BELLS | 31 SEC. |
| HK223-OE | SILENT NIGHT | 23 SEC. |
| HK223-OJ | RUDOLPH , THE RED NOSED REINDEER | 26 SEC. |
| HK223-OM | JINGLE BELLS + SANTA CLAUS IS COMING TOWN + MERRY X'MAS | 27 SEC. |