

◆ 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

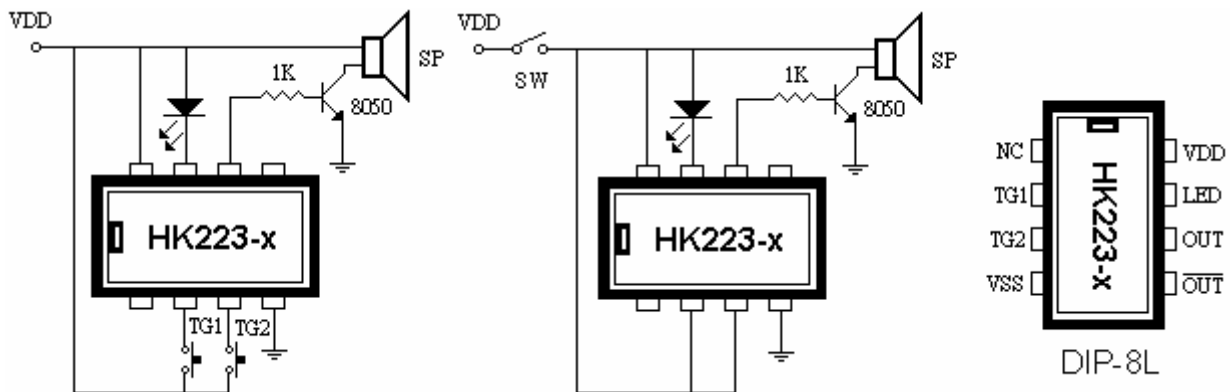
◆ Application

Home Appliance, Clock melody, Key chain, Greeting card

◆ Electrical Characteristics

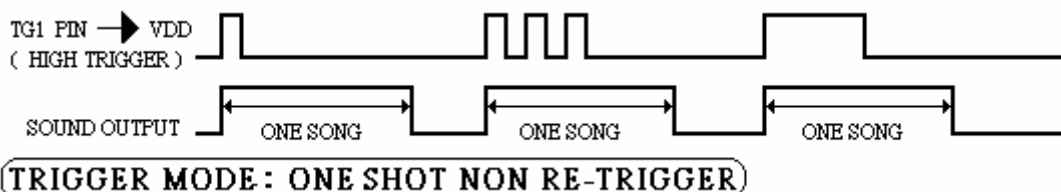
Characteristics	Sym.	Min.	Typ.	Max.	Unit	Remark
Operating voltage	V _{DD}	----	1.5	3.5	V	
Operating current	I _{OP}	----	0.1	0.5	mA	
Stand by current	I _{SB}	----	1	5	uA	
Oscillator frequency	F _{OSC}	----	100	----	KHz	±30%
Operating temperature	T _{EMP}	0	25	60	°C	
Driving current	I _O	1	----	----	mA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

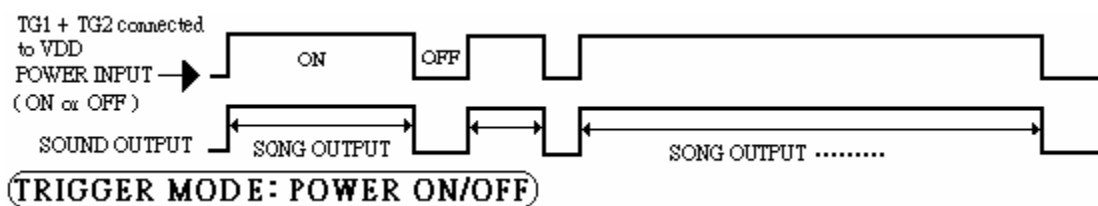
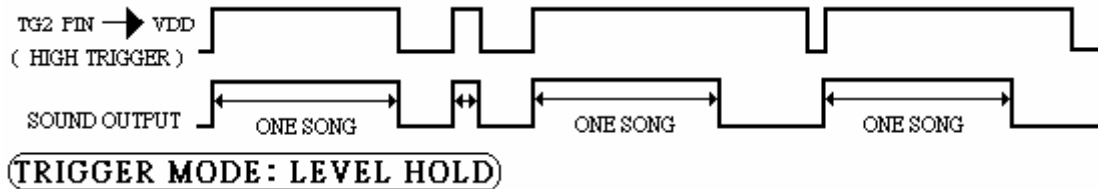
◆ Application circuit



★ 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.
HK223-3E	IT IS A SMALL WORLD	46 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.

SIMPLE MELODY IC

128 NOTES SINGLE TONE MELODY

<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.