

SOUND EFFECT IC

Animals , Train , Baby , Truck , Car sound

◆ Features

- * 5 kind ICs available for Animals , Train , Baby cry & laugh , Truck , Car sounds
- * Fixing sound output with 4 sections each kind IC by 4 trigger keys (TG1 ~ TG4 pin) option
- * Trigger mode of TG1 ~ TG4 pin fixed in IC body by One-shot non re-trigger , Level hold or One-shot re-trigger

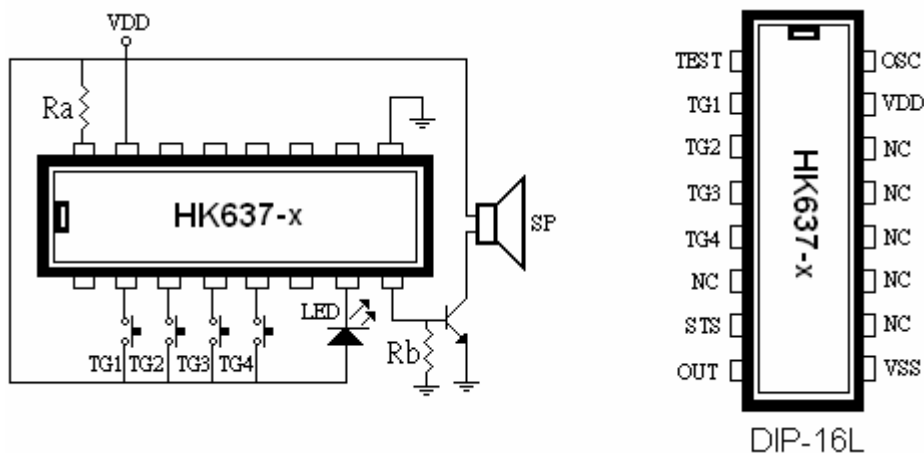
◆ Application

Home appliance, Toys, Education kits, Sound box

◆ Electrical Characteristics

Characteristics	Sym.	Min.	Typ.	Max.	Unit	Remark
Operating voltage	V _{DD}	2.6	3	5.1	V	
Output driving current	I _{OD}	----	4.5	----	mA	load
Stand by current	I _{SB}	----	1	10	uA	
Oscillator frequency	F _{OSC}	----	96	----	KHz	±30%
Operating temperature	T _{EMP}	0	25	60	°C	
Consumption current	I _{CS}	----	150	300	mA	Load

◆ Application circuit



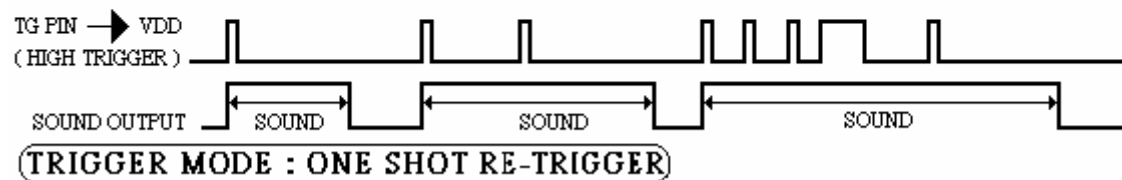
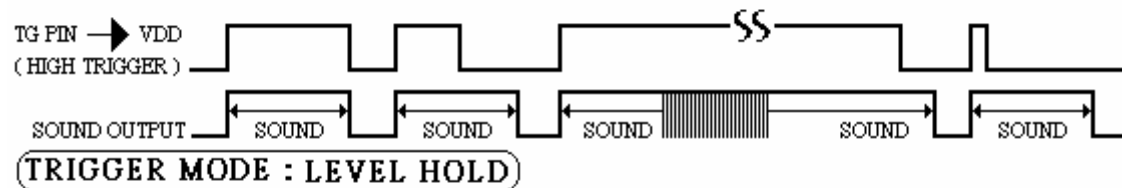
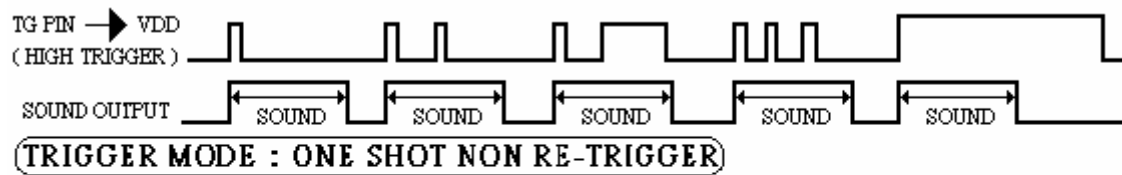
	Ra	Rb	STS pin output	Trigger mode
HK637-1	300K	1.5K	Stop pulse	One shot , non re-trigger
HK637-2	300K	680	LED flash signal	Level hold
HK637-3	300K	1.5K	Stop pulse	Level hold
HK637-4	270K	2.7K	LED flash signal	Level hold
HK637-5	300K	1K	LED flash signal	One shot , re-trigger

★ Package Type : DIP-16L

★ Trigger Mode and Timing Chart :

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◆ Sound list

HK637- 1 (Animal sounds)

TG1: Cat sound
TG2: Hen sound

TG3: Cow sound
TG4: Dog sound

HK637- 2 (Train Sounds)

TG1: Sounds of Train whistle + Train driving + Warning bell + Train pass by bridge
TG2: Train whistle sound

TG3: Warning bell sound
TG4: Train Pass by bridge sound

HK637- 3 (Baby Cry & laugh sounds)

TG1: Baby laugh sound
TG2: Baby cry sound

TG3: “ Ma Ma ” (baby speech)
TG4: “ Ma Ma ” + Baby cry sound

HK637- 4 (Truck sounds)

TG1: Truck start + engine sounds
TG2: Truck start + engine + driving sounds

TG3: Truck horn sound
TG4: Truck horn + driving sounds

HK637- 5 (Car sounds)

TG1: Car horn sound
TG2: Car start + engine sounds

TG3: Car acceleration + driving sounds
TG4: Car start + engine + acceleration + driving sounds