UTC 1618 CMOS IC

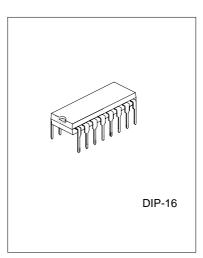
6 KEYS SIREN/ALARM SOUND GENERATOR

DESCRIPTION

The UTC 1618 is a CMOS design for 6 different alarm sounds application. According to the priority of the select keys, the sound of UTC 1618 will be generated in cycling sequence.

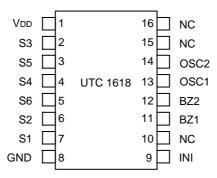
FEATURES

- *Auto power off function , reduce power consumption.
- * Low operating voltage: 2V ~ 5V.
- * On-chip RC oscillator.
- * 6 different sounds.
- * 6 prioritized keys for selecting 6 different sounds.
- * Low stand by current.
- * CMOS process.



* Pb-free plating product number: 1618L

PIN CONFIGURATION



UTC 1618 CMOSIC

PIN DESCRIPTIONS

Pin No	Symbol	I/O	Function			
1	Vdd	-	Power supply pin (+).			
2	S1	I	Sound selection keys. These keys connect with internal pull-down resistors. The			
3	S2	I	sound output will be enabled when a key is connected to VDD. On other hands, the sound output will be disabled if a key is N.C. or connected to GND. When two or more keys are selected in the same time, the sound will be			
4	S3	1				
5	S4	1				
6	S5	1	generated in cycling sequence. According to the priority of the keys,			
7	S6	ı	the proirity of S1~S6 list below : S1>S2>S6>S4>S5>S3.			
8	GND	-	Power supply pin (-).			
9	INI	1	An internal pull-up resistor. Might disable BZ1, BZ2, when connected to GND.			
10	NC	-	No connecting.			
11	BZ1	0	Audio output pins.			
12	BZ2	0				
13	OSC1	0	Oscillator pin with external resistor.			
14	OSC2	ı				
15	NC	-	No connecting.			
16	NC	0	No connecting.			

ABSOLUTE MAXIMUM RATINGS

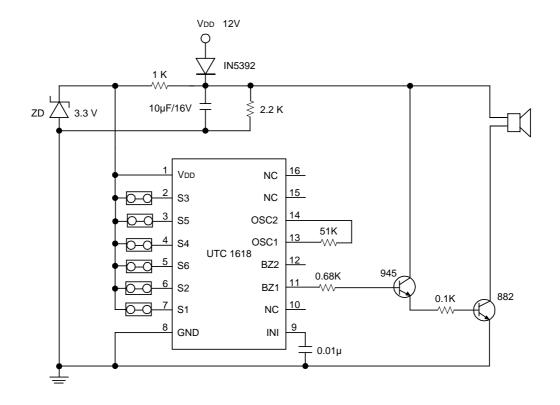
/ 12 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
PARAMETER	SYMBOL	RATINGS	UNIT					
Supply Voltage	VDD	-0.3 ~ 6	V					
Input Voltage	Vi	-0.3 ~ VDD+0.3	V					
Output Voltage	Vo	-0.3 ~ VDD+0.3	V					
Operating Temperature	Topr	0 ~ 65	°C					
Storage Temperature	Tstg	-40 ~ 125	°C					

ELECTRICAL CHARACTERISTICS (Unless otherwise specified: VDD=3V , Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
Operating Voltage	VDD	2	3	5	V
Stand-By Current	Isb		10	20	uA
Operating Current	lop		300	500	uA
BZ1, BZ2 Driving Current	loh	1			mA
	lol	1			mA
Operating Frequency	Fop	70	80	128	K Hz

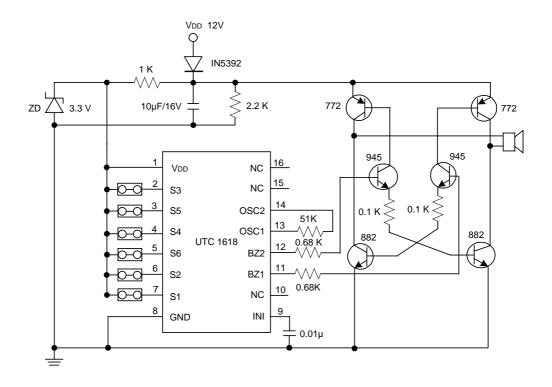
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