### UTC 1618

### **CMOSIC**

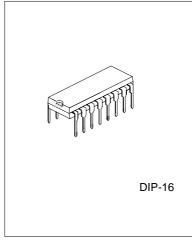
# 6 KEYS SIREN/ALARM SOUND GENERATOR

#### 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.

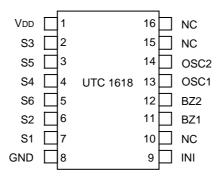
### FEATURES

- \*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**



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PIN DE	SCRIPTI	ONS			
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 wiil be enabled when a key is connected to VDD. On other hands, the		
4	<b>S</b> 3	I	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 generated in cycling sequence. According to the priority of the keys, the proirity of S1~S6 list below : S1>S2>S6>S4>S5>S3.		
5	S4	I			
6	<b>S</b> 5	I			
7	S6	I			
8	GND	-	Power supply pin (-).		
9	INI	I	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	I			
15	NC	-	No connecting.		
16	NC	0	No connecting.		

### ABSOLUTE MAXIMUM RATINGS

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)

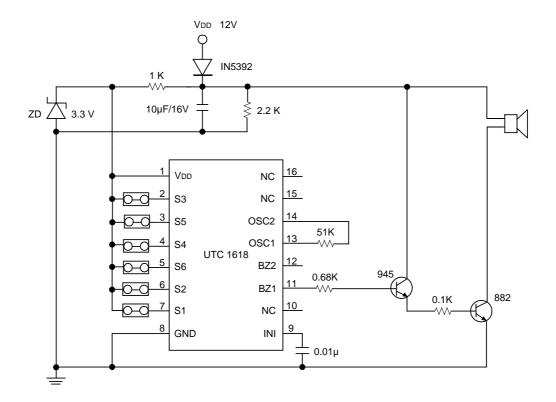
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
Operating Voltage	Vdd	2	3	5	V
Stand-By Current	Isb		10	20	uA
Operating Current	lop		300	500	uA
BZ1, BZ2 Driving Current	loh	1			mA
	lol	1			mA
Operating Frequency	Fop	70	80	128	K Hz



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## CMOS IC

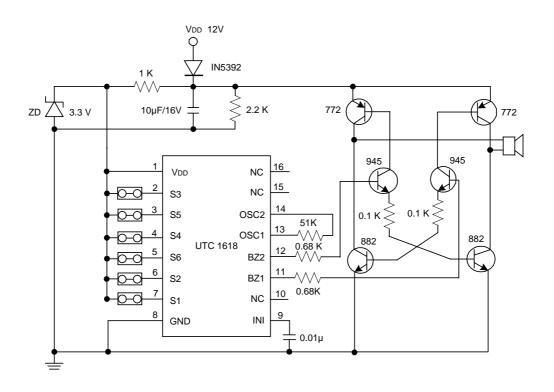
APPLICATION CIRCUIT ( )



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### **CMOSIC**

APPLICATION CIRCUIT ( )



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