

1618

6 KEYS SIREN/ALARM SOUND GENERATOR

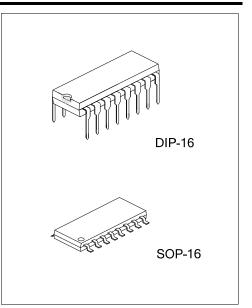
DESCRIPTION

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 \sim 5V.
- * On-chip RC oscillator.
- * 6 different sounds.
- * 6 prioritized keys for selecting 6 different sounds.
- * Low stand by current.
- * CMOS process.

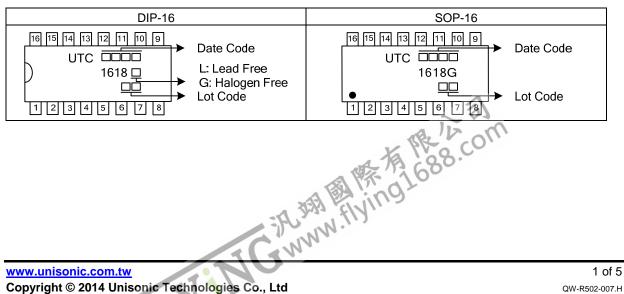
ORDERING INFORMATION



Ordering NumberPackagePackingLead FreeHalogen FreePacking1618L-D16-T1618G-D16-TDIP-16Tube-1618G-S16-RSOP-16Tape Reel

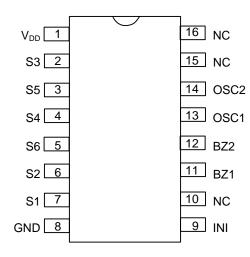
1618 <u>L</u> - <u>D16-T</u>		
	(1)Packing Type	(1) T: Tube, R: Tape Reel
	(2)Package Type	(2) D16: DIP-16, S16: SOP-16
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING



■ PIN CONFIGURATION

1618



PIN DESCRIPTIONS

PIN No.	PIN NAME	I/O	DESCRIPTION			
1	V _{DD}	-	Power supply pin (+).			
2	S3	I	Sound selection keys. These keys connect with internal pull-down resistors. The			
3	S5	I	sound output will be enabled when a key is connected to V_{DD} . On other hands the sound output will be disabled if a key is N.C. or connected to GND.			
4	S4	I				
5	S6	I	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			
6	S2	I				
7	S1	I	S1~S6 list below : S1>S2>S6>S4>S5>S3.			
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 RATING (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V _{DD}	-0.3 ~ 6	V
Input Voltage	V _{IN}	-0.3 ~ V _{DD} +0.3	V
Output Voltage	V _{OUT}	-0.3 ~ V _{DD} +0.3	V
Operating Temperature	T _{OPR}	0 ~ 65	°C
Storage Temperature	T _{STG}	-40 ~ 125	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

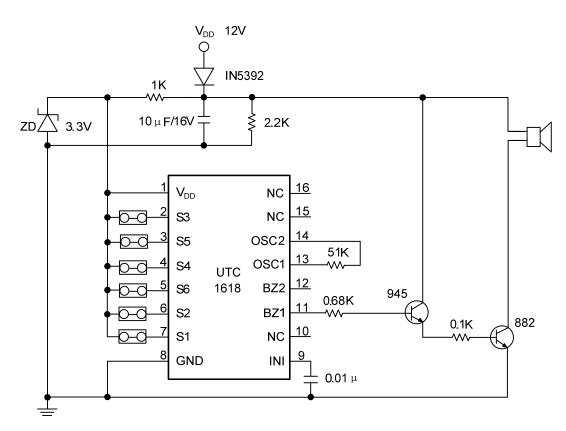
■ ELECTRICAL CHARACTERISTICS (V_{DD}=3V,T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Operating Voltage	V _{DD}	2	3	5	V
DZ4 DZ2 Driving Current	I _{OH}	1			mA
BZ1, BZ2 Driving Current	I _{OL}	1			mA
Stand-By Current	I _{SB}		10	20	uA
Operating Current	I _{OP}		300	500	uA
Operating Frequency	F _{OP}	70	80	128	KHz

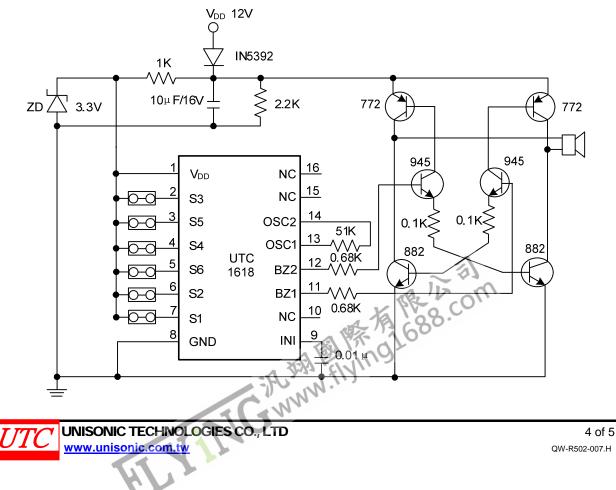


APPLICATION CIRCUIT

(I)



(Ⅱ)



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