

1618

6 KEYS SIREN/ALARM SOUND GENERATOR

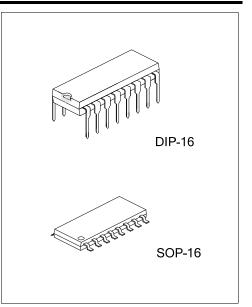
DESCRIPTION

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.

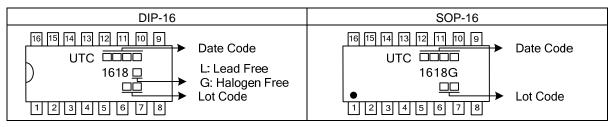
ORDERING INFORMATION



Ordering Number		Deekoge	Dealing	
Lead Free	Halogen Free	Package	Packing	
1618L-D16-T	1618G-D16-T	DIP-16	Tube	
-	1618G-S16-R	SOP-16	Tape Reel	

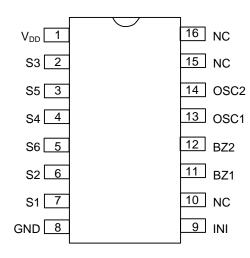
1618 <u>L</u> - <u>D16</u> - <u>T</u>		
	(1)Packing Type	(1) T: Tube, R: Tape Reel
	(2)Package Type	(2) D16: DIP-16, S16: SOP-16
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

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		
4	S4	I	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 generated in cycling sequence. According to the priority of the keys, the proirity S1~S6 list below : S1>S2>S6>S4>S5>S3.		
5	S6	I			
6	S2	I			
7	S1	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 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.

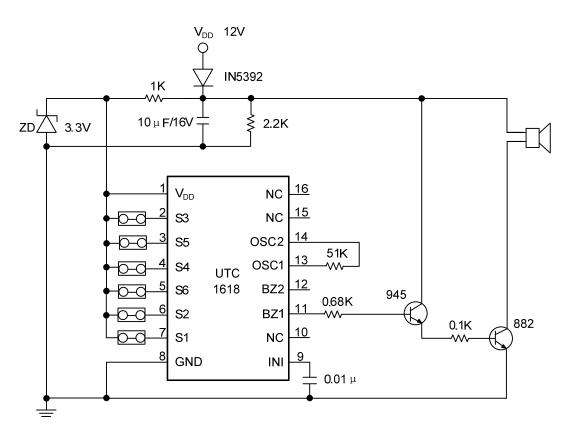
ELECTRICAL CHARACTERISTICS (VDD=3V,TA=25°C, unless otherwise specified)

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

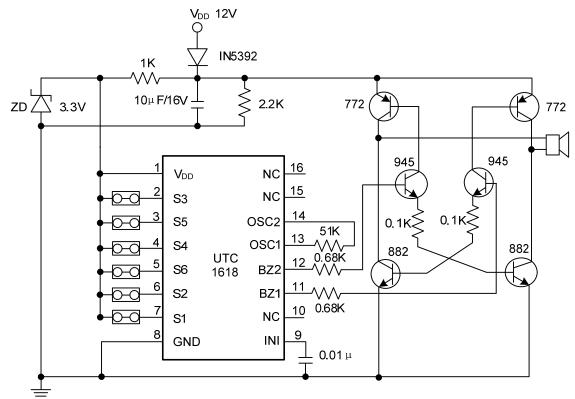


■ APPLICATION CIRCUIT

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