

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.

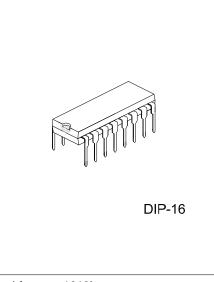
FEATURES

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

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* CMOS process.

ORDERING INFORMATION



Lead-free: 1618L Halogen-free: 1618G

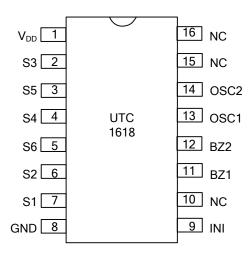
Ordering Number			Dookogo	Decking	
Normal	Lead Free	Halogen Free	– Package	Packing	
1618-D16-T	1618L-D16-T	1618G-D16-T	DIP-16	Tube	

1618L- <u>D16-T</u>	(1)Packing Type	(1) T: Tube
	(2)Package Type	(2) D16: DIP-16
	(3)Lead Plating	(3) G: Halogen Free, L: Lead Free, Blank: Pb/Sn

CMOS IC

1618

PIN CONFIGURATION



PIN DESCRIPTIONS

PIN #	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.	
3	S5	I	The sound output will be enabled when a key is connected to V_{DD} . On other	
4	S4	I	hands, the sound output will be disabled if a key is N.C. or connected to GND.	
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 S1~S6 list below : S1>S2>S6>S4>S5>S3.	
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

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.

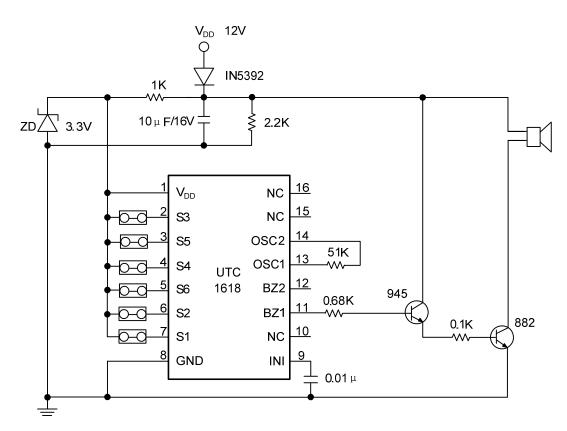
■ ELECTRICAL CHARACTERISTICS (V_{DD}=3V,T_a=25°C, unless otherwise specified)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Operating Voltage	V _{DD}	2	3	5	V
R71 R72 Driving Current	I _{ОН}	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

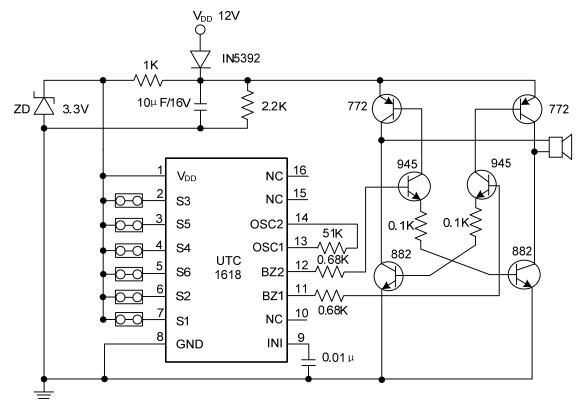


■ APPLICATION CIRCUIT

(I)



(II)



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