

UTC 1617

CMOS IC

6 TONES SIREN/ALARM SOUND GENERATOR

DESCRIPTION

The UTC 1617 is a CMOS design for 6 different alarm sounds application. The sound of UTC 1617 will be generated in cycling sequence.

By the way, UTC 1617 is also partitioned to 6 types for single tone siren/alarm sound generator. The types of UTC 1617 Series are listed as following.

1617: 6 tones on chip.

1617A: Single tone which be outputted from 1617's 1st sound.

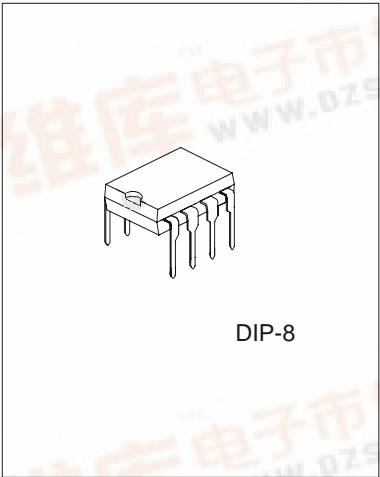
1617B: Single tone which be outputted from 1617's 2nd sound.

1617C: Single tone which be outputted from 1617's 3rd sound.

1617D: Single tone which be outputted from 1617's 4th sound.

1617E: Single tone which be outputted from 1617's 5th sound.

1617F: Single tone which be outputted from 1617's 6th sound.

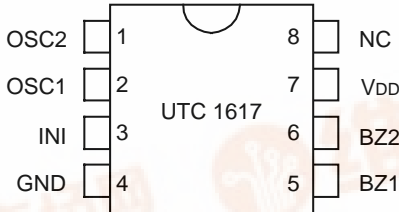


*Pb-free plating product number: 1617L

FEATURES

- * Low operating voltage: 2V ~ 5V.
- * On-chip RC oscillator.
- * Low stand by current.
- * CMOS process.

PIN CONFIGURATION



PIN DESCRIPTIONS

Pin No	Symbol	I/O	Function
1	OSC2	I	Oscillator pin with external resistor.
2	OSC1	O	
3	INI	I	An internal pull-up resistor. Might disable BZ1, BZ2, when connected to GND.
4	GND	-	Power supply pin (-).
5	BZ1	O	Audio output pins.
6	BZ2	O	
7	VDD	-	Power supply pin (+) .
8	NC	-	No connecting.

UTC

UNISONIC TECHNOLOGIES CO., LTD.



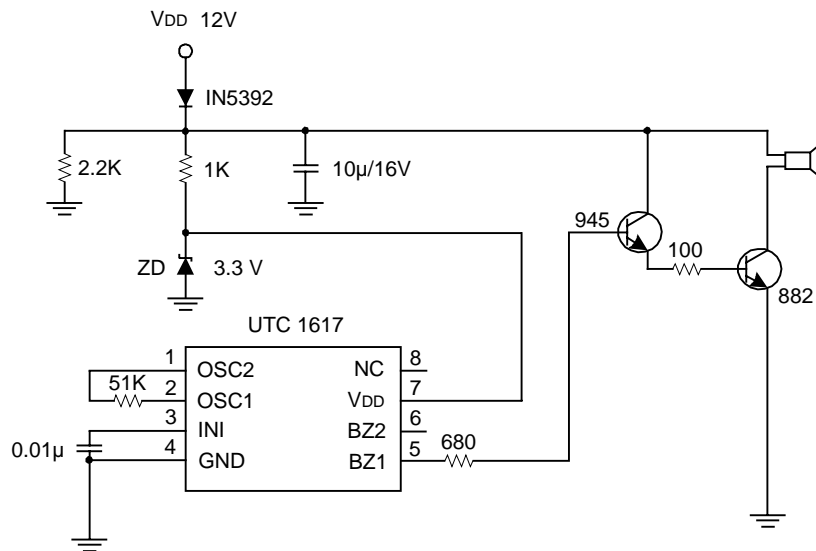
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V _{DD}	-0.3 ~ 6	V
Input Voltage	V _i	-0.3 ~ V _{DD} +0.3	V
Output Voltage	V _o	-0.3 ~ V _{DD} +0.3	V
Operating Temperature	T _{opr}	0 ~ 65	°C
Storage Temperature	T _{stg}	-40 ~ 125	°C

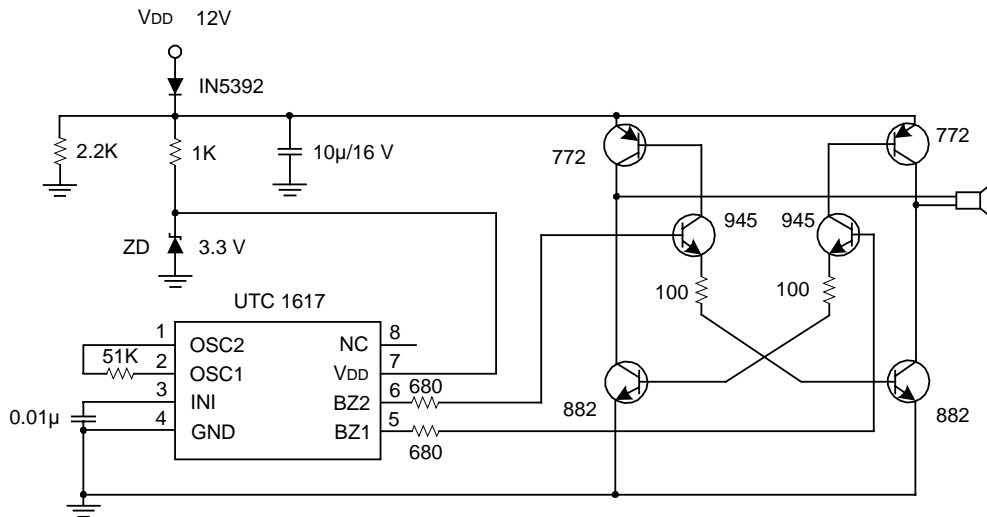
ELECTRICAL CHARACTERISTICS (Unless otherwise specified: V_{DD}=3V, Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V _{DD}	2	3	5	V
Operating Current	I _{op}		300	500	uA
BZ1, BZ2 Driving Current	I _{oh}	1			mA
	I _{ol}	1			mA
Operating Frequency	F _{op}	70	80	128	K Hz

APPLICATION CIRCUIT ()



APPLICATION CIRCUIT ()



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