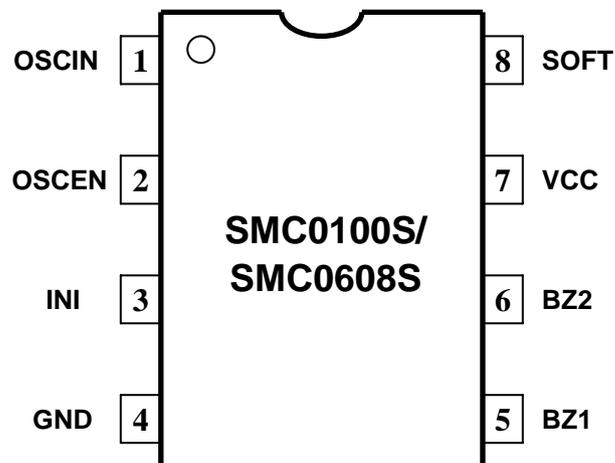


SMC0100S / SMC0608S

The SMC0100S & SMC0608S is a one tone and six tone design for alarm sound application CMOS IC.

FEATURES:

1. Low Operating Voltage 2V~5V.
2. CMOS process.
3. Single RC oscillator.

PIN DIAGRAM

PIN OUT AND DESCRIPTION

Symbol	Description	PIN	I/P,O/P
OSCIN	Oscillator pin	1	O/P
OSCEN	Oscillator pin	2	I/P
INI	An internal pull-up resistor. Might disable BZ1,BZ2 when connected to GND.	3	I/P
GND	Ground	4	
BZ1	Audio output	5	O/P
BZ2	Audio output	6	O/P
VCC	Power	7	
SOFT	Open = Tone Vcc = Tone with 2 s soft chirp	8	I/P

ELECTRICAL CHARACTERISTICS

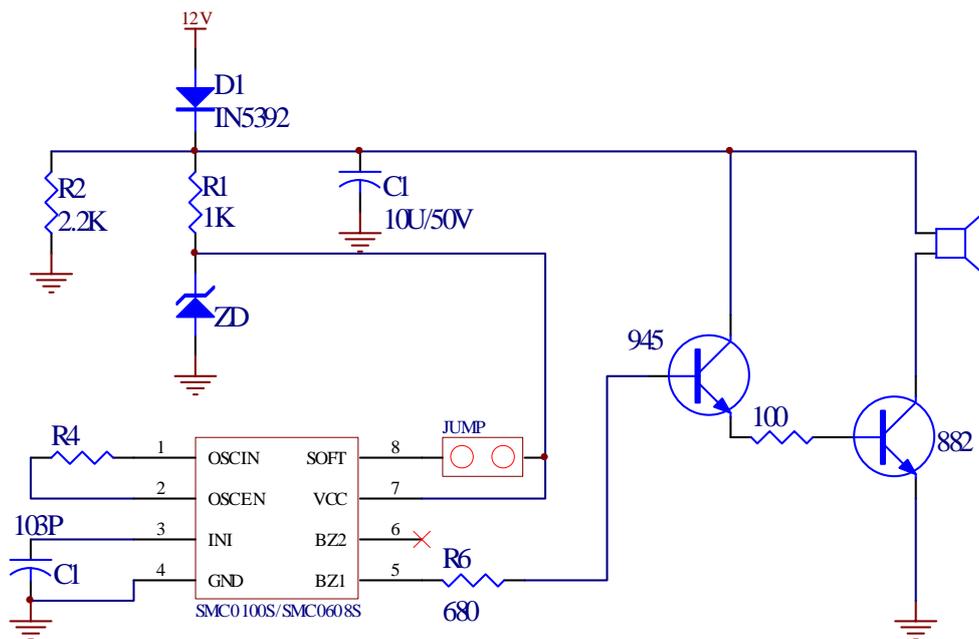
VCC=5V, Temp. =25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating Voltage	VCC	2.0	-	5.0	V
Operating Current (Reference FIG.1)	I _{op}	-	-	800	mA
BZ1, BZ2 Driving Current	I _{oh} V _{oh} =4.5	-	-	5	mA
	I _{ol} V _{ol} =0.5	-	-	8	mA
Operating Frequency	F _{op}	-	128	-	K Hz

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Rating	Unit
VCC	Supply Voltage	-0.3 ~ 6	V
Vi	Input Voltage	-0.3 ~ Vcc+0.3	V
Vo	Output Voltage	-0.3 ~ Vcc+0.3	V
Tst	Storage Temperature	-40 ~ 125	°C
Ttp	Operating Temperature	0 ~ 65	°C

APPLICATION CIRCUIT



(FIG.1)

IC TYPE	ZD	R4
SMC0100S/ SMC0608S	2.7V	82K
	3.3V	82K
	4.7V	82K