

■ INTRODUCTION

SN67060 is a 60 seconds single chip voice synthesizer IC which contains I/O pins and a tiny controller. By programming through the tiny controller, user's applications including section combination, trigger modes, output status, and other logic functions can then be easily implemented.

■ FEATURES

- ◆ Single power supply 2.4V - 5.1V
- ◆ Built in a tiny controller
- ◆ 60 seconds voice capacity are provided
- ◆ One 4-bit input port and two 4-bit I/O ports are provided
- ◆ 64*4 bits RAM are provided
- ◆ Maximum 16k program ROM is provided
- ◆ Readable ROM code data
- ◆ Built in a high quality speech synthesizer
- ◆ Adaptive playing speed from 2.5k-20kHz is provided
- ◆ Fixed current D/A output is provided to drive external connected transistor for sound output
- ◆ Low Voltage Reset

■ PIN ASSIGNMENT

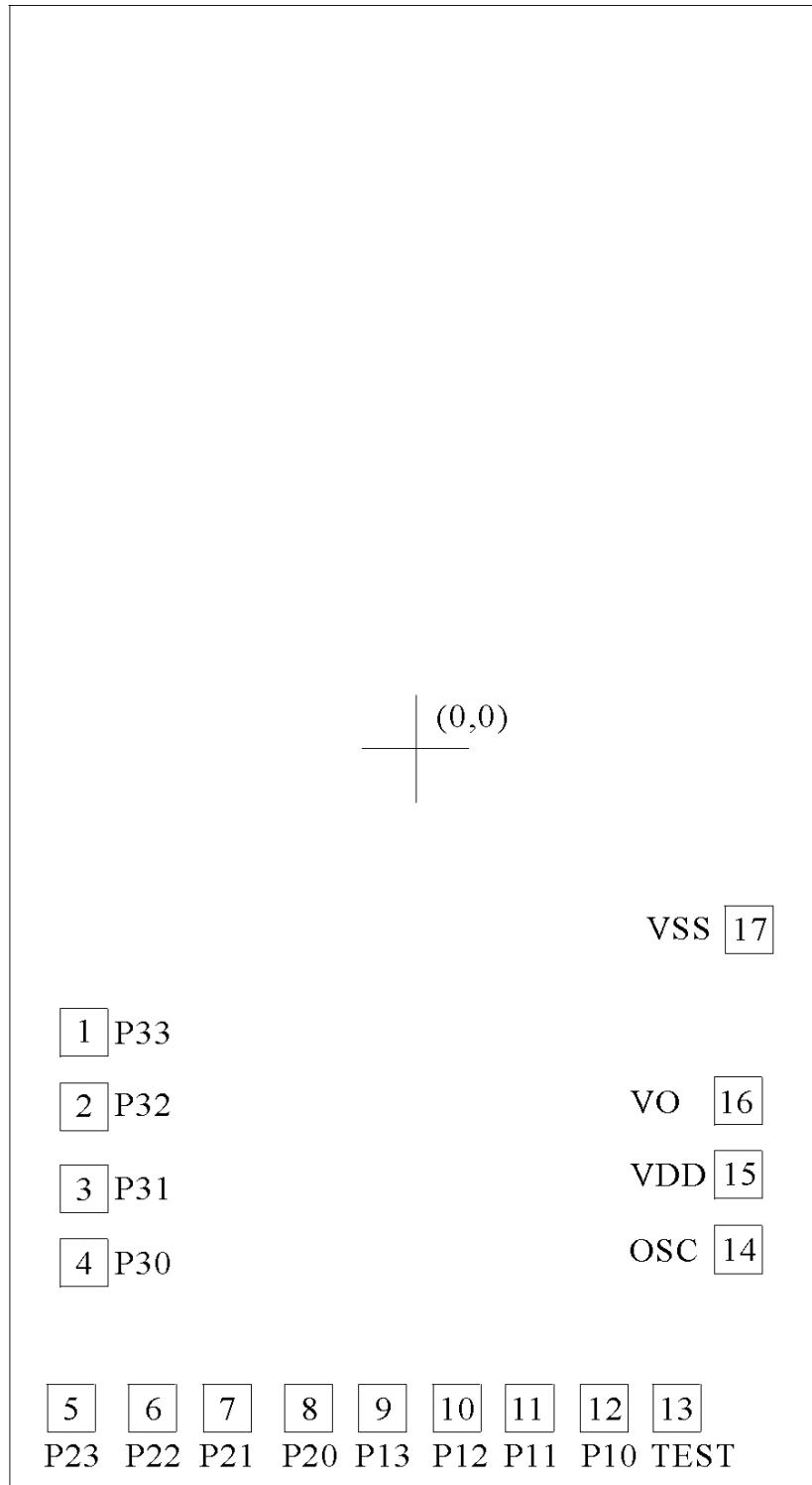
Symbol	I/O	Function Description
P10	I	Bit0 of input port 1
P11	I	Bit1 of input port 1
P12	I	Bit2 of input port 1
P13	I	Bit3 of input port 1
P20	I/O	Bit0 of I/O port 2
P21	I/O	Bit1 of I/O port 2
P22	I/O	Bit2 of I/O port 2
P23	I/O	Bit3 of I/O port 2
P30	I/O	Bit0 of I/O port 3
P31	I/O	Bit1 of I/O port 3
P32	I/O	Bit2 of I/O port 3
P33	I/O	Bit3 of I/O port 3
V_{DD}	I	Positive power supply
OSC	I	Oscillation component connection pin
TEST	I	For testing only
V_{SS}	I	Negative power supply
V_o	O	D/A current output

■ ABSOLUTE MAXIMUM RATING

Items	Symbol	Min	Max	Unit.
Supply Voltage	V_{DD}	-0.3	6.0	V
Input Voltage	V_{IN}	$V_{SS}-0.3$	$V_{DD}+0.3$	V
Operating Temperature	T_{OP}	-20.0	70.0	°C
Storage Temperature	T_{STG}	-55.0	125.0	°C

■ ELECTRICAL CHARACTERISTICS

Item	Sym.	Min.	Typ.	Max.	Unit	Condition
Operating Voltage	V_{DD}	2.4	3.0	5.1	V	
Standby Current	I_{SBY}	-	-	2.0	μA	$V_{DD}=3V$, no load
Operating Current	I_{OPR}	-	-	250	μA	$V_{DD}=3V$, no load
Input Current of P1	I_i	-	3	-	μA	$V_{DD}=3V$
Drive Current of P2,P3	I_{OD}	1.5	2	-	mA	$V_{DD}=3V, V_O=2.4V$
Sink Current of P2,P3	I_{OS}	2.0	3	-	mA	$V_{DD}=3V, V_O=0.4V$
D/A Output Current	I_{VO}	2.0	3.0	4.0	mA	$V_{DD}=3V, V_O=0.7V$
Oscillation Freq.	F_{osc}	-	1.0	-	MHz	$V_{DD}=3V$

■ BONDING PAD**SN67060**

Note: The substrate MUST be connected to Vss in PCB layout.

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