

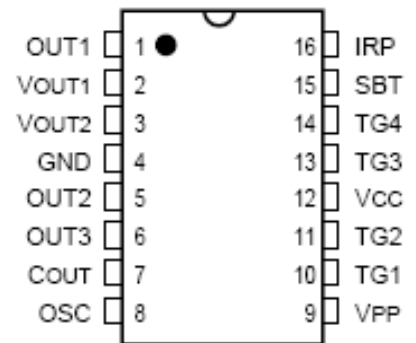


Versatile 20 Sec Instant Voice ROM

Model: API8208

Features:

- 1- Minimum 20 second voice length at 6 KHz
- 2- Versatile features for playback
- 3- Combination of voice building blocks extends the duration of playback
- 4- Voice data re-use saves memory space
- 5- Four trigger pins, TG1 to TG4 for eight groups
- 6- SBT for sequential play-all or random play
- 7- Holdable and unholdable, edge and level triggering option
- 8- 15 ms debounce time suitable for CDS
- 9- IRP interrupt pin for master reset
- 10- Three programmable output pins for STP Stop Pulse, BUSY Signal, and LED
- 11- Built-in oscillator with variable sample rate
- 12- Single external resistor to determine sample rate
- 13- Built-in D/A converter, EPROM
- 14- ADPCM data compression provides high sound quality
- 15- Optional pop noise elimination function
- 16- C_{OUT} pin drives speaker with a transistor
- 17- V_{OUT1} and V_{OUT2} drive buzzer or speaker discretely
- 18- Auto-power down
- 19- 3.0V-6V single power supply operation
- 20- Low standby current (<5 μ A at 3V)
- 21- Development tools support



PIN description:

OUT1	Programmable output 1
OUT2	Programmable output 2
OUT3	Programmable output 3
VOUT ₁	PWM audio signal output for buzzer and speaker
VOUT ₂	PWM audio signal output for buzzer and speaker
GND	Power ground
COUT	Current output from internal DAC for speaker playback
OSC	Oscillator resistor pin to control sampling frequency
VPP	Program power supply, no connect when voice playback
TG1	Trigger switch 1, internal pull low, active high
TG2	Trigger switch 2, internal pull low, active high
VCC	Positive power supply
TG3	Trigger switch 3, internal pull low, active high
TG4	Trigger switch 4, internal pull low, active high
SBT	Sequential trigger, internal pull low, active high
IRP	Interrupt to stop playback, internal pull low, active high