

Analog Signal Input Class-D Amplifier for Piezo Speaker with DC-DC Converter

■ GENERAL DESCRIPTION

The NJW1263 is an analog signal input monaural class-D amplifier for Piezo speaker. And a built-in DC-DC converter generates variable output voltage (up to 20 V) with input voltage (3.0 to 4.2V).

The NJW1263 incorporates BTL amplifier, which eliminate AC coupling capacitors, and it is capable of driving Piezo speaker with simple external LC low-pass filters.

Class-D operation achieves lower power operation for Piezo speaker, thus the NJW1263 is suited for battery-powered applications.

■ PACKAGE OUTLINE



NJW1263WLC1

■ FEATURES

- Output Voltage $V_{DD}=3.0V$ to $4.2V$
 $V_{DDO}=8.0$ to $20.0V@SP$ MODE
 $V_{DDO}=4.5V@REC$ MODE
- Analog Audio Signal Input
- 2input selector (Speaker Mode and Receiver Mode)
- 1-channel BTL Output, Piezo Speaker Driving
- Built-in DC-DC Converter
- Built-in Low Voltage Detector
- Standby (Hi-Z), Soft Start, Soft Mute Control
- Built-in Pop noise reduction
- Built-in Short Protector)
- Built-in Thermal Protection
- Package Outline: WCSP42

■ BLOCK DIAGRAM

