



Mono 2.6W Class D Amplifier

MAX98300

General Description

The MAX98300 mono 2.6W Class D amplifier provides Class AB audio performance with Class D efficiency. This device offers five selectable gain settings (0dB, 3dB, 6dB, 9dB, and 12dB) set by a single gain-select input (GAIN).

Active emissions limiting edge-rate and overshoot control circuitry greatly reduces EMI. A patented filterless spread-spectrum modulation scheme eliminates the need for output filtering found in traditional Class D devices. These features reduce application component count.

The MAX98300 industry-leading 0.78mA at 3.7V, 1.1mA at 5V, quiescent current extends battery life in portable applications.

The MAX98300 is available in an 8-pin TDFN-EP (2mm x 2mm x 0.8mm) and a 9-bump (1.2mm x 1.2mm) WLP. Both packages are specified over the extended -40°C to +85°C temperature range.

Features

- ◆ Industry-Leading Quiescent Current: 0.78mA at 3.7V, 1.1mA at 5V
- ◆ Spread Spectrum and Active Emissions Limiting
- ◆ Five Selectable Gains
- ◆ Click-and-Pop Suppression
- ◆ Thermal and Overcurrent Protection
- ◆ Low-Current Shutdown Mode
- ◆ Space-Saving Packages
 - 2mm x 2mm x 0.8mm, 8-Pin TDFN-EP
 - 1.2mm x 1.2mm, 9-Bump WLP (0.4mm Pitch)

Applications

- Notebook and Netbook Computers
- Cellular Phones
- MP3 Players
- Portable Audio Players
- VoIP Phones

Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
MAX98300ETA+*	-40°C to +85°C	8 TDFN-EP**
MAX98300EWL+	-40°C to +85°C	9 WLP

+ Denotes lead(Pb)-free/RoHS-compliant package.
 *Future product—contact factory for availability.
 **EP = Exposed pad.

Typical Application Circuit

