

## 150W 2-Channel Full Digital Audio Amplifier Power Stage

### Description

This document contains detailed target specification about Class D Power Stage for Full Digital Audio Amplifier. The Audio Output Powers are 150W RMS/channel(with 4  $\Omega$  resistor load)..

### Applications

- Sound bar
- Wireless Speaker
- A/V Receiver
- Home entertainment
- Smart TV
- Digital set top box
- Car A/V System

### Ordering Information

Part	Temp. Range	Pb-Free	Package
SMA2501	-25°C to +85°C	Yes	48-HSSOP
SMA2501Q	-25°C to +85°C	Yes	64-QFN-0909

### Features

- Output Configuration
  - 2x full bridge output channel in one chip (BTL mode)
  - Possible drive 4x half bridge configuration (SE mode)
  - Parallel bridge configuration (PBTL mode)
  - 1x BTL + 2x SE configuration (2.1ch mode)
- Protection
  - Over temperature protection and thermal warning signal output
  - Under voltage protection (UVP)
  - Over current protection
  - Short circuit protection
- Protection
  - N+N power DMOS output stages with bootstrap circuits
  - Low voltage CMOS logic level interface
  - Included pop and click noise killer logic

\*Technology by



# ***SMA2501***

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