

Audio Amp Speaker 4-CH Stereo 30W Class-AB Automotive 25-Pin FLEXIWATT(Vertical) Tube



Images are for reference only

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: ZIP25

Product Type: Amplifier ICs

Lifecycle: Active

[Inquiry](#)

General Description

The TDA7381 is a class AB audio power amplifier in Flexiwatt25 package designed for car radio applications. Thanks to the fully complementary PNP/NPN output configuration the TDA7381 allows a rail to rail output voltage swing with no need of bootstrap capacitors.. The extremely reduced components count allows very compact sets. The on-board clipping detector simplifies gain compression operations. The fault diagnostics makes it possible to detect mistakes during car-radio assembly and wiring in the car.

Key Features

High output power capability:

4 x 30 W/4 Ω max.

4 x 25 W/4 Ω EIAJ

4 x 18 W/4 Ω @ 14.4 V, 1 kHz, 10 %

4 x 15 W/4 Ω @ 13.2 V, 1 kHz, 10 %

4 x 30 W/4 Ω max.

4 x 25 W/4 Ω EIAJ

4 x 18 W/4 Ω @ 14.4 V, 1 kHz, 10 %

4 x 15 W/4 Ω @ 13.2 V, 1 kHz, 10 %

Clipping detector

Low distortion

Low output noise

Standby function

Mute function

Automute at min. supply voltage detection

Diagnostics facility for:

Clipping

Out to GND short

Out to VSshort

Thermal shutdown

Clipping

Out to GND short

Out to VSshort

Thermal shutdown

Low external component count:

Internally fixed gain (26 dB)

No external compensation

No bootstrap capacitors

Internally fixed gain (26 dB)

No external compensation

No bootstrap capacitors

Protections:

Output short circuit to GND, to VS, across the load

Very inductive loads

OVERRATING chip temperature with soft thermal limiter

Load dump voltage

Fortuitous open GND

Reversed battery

ESD protection

Output short circuit to GND, to VS, across the load

Very inductive loads

OVERRATING chip temperature with soft thermal limiter

Load dump voltage

Fortuitous open GND

Reversed battery

ESD protection



Recommended For You

TDA7387EP

STMicroelectronics, Inc

ZIP25

TDA7562

STMicroelectronics, Inc

ZIP27

TDA7296

STMicroelectronics, Inc

ZIP-15

TDA7419

STMicroelectronics, Inc

SOP28

TDA7561

STMicroelectronics, Inc

ZIP

TDA7575B

STMicroelectronics, Inc

ZIP27

TDA7376B

STMicroelectronics, Inc

ZIP-15

TDA7851L

STMicroelectronics, Inc

ZIP-25

TDA7417

STMicroelectronics, Inc

QFP

TDA2005R

STMicroelectronics, Inc

ZIP

TDA7801

STMicroelectronics, Inc

ZIP27

TDA7388A

STMicroelectronics, Inc

ZIP-27

TDA7850A

STMicroelectronics, Inc

ZIP27

TDA7563ASM

STMicroelectronics, Inc

ZIP-27

TDA75610LV

STMicroelectronics, Inc

ZIP27